Specification Ecowood and Ecowood Plus

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Important remarks for Ecowood

	Ecowood	Ecowood Plus	Primewood
Max. panel width 1 folding panel:			
Lamel 47mm	600	600	762
Lamel 63mm	750	914	914
Lamel 89mm	750	914	1066
Lamel 114mm	-	-	1066
Max. panel width 2 folding panels:			
Lamel 47mm	600	600	660 (762 with track)
Lamel 63mm	600	600	660 (914 with track)
Lamel 89mm	600	600	660 (914 with track)
Lamel 114mm	-	-	660 (914 with track)
Different options:			
Moisture resistant	√	√	√
Splash proof			
Roof window			√
R frame			√
18 Paint colors		√	√
18 Stain colors			√
Sloped windows	√		√
Arch and round windows			√
Remote control	√	√	√
Double hang			√
Silent View	√	√	√

Additional comments that apply to all Ecowood versions:

- Always support the panels at the bottom due to the higher weight of Ecowood panels.

- To plane and/ or saw in the ecowood shutters is not recommended for this will interrupt the polypropylene coating.

- A combination of the different shutter types can be made of course (preferably the same type in 1 window opening).

For further detailed informations and differences between the basswood see the specifications.

1. Material

Ecowood is made of composite wood (made of wood fibers) from environmental friendly managed forests. The polypropylene coating makes sure the surface is smooth and resistant to dirt and dust for easy cleaning.

The frames are connected via a classical mortise-and-tenon joint, maximising the glued surface for maximum rigidity.

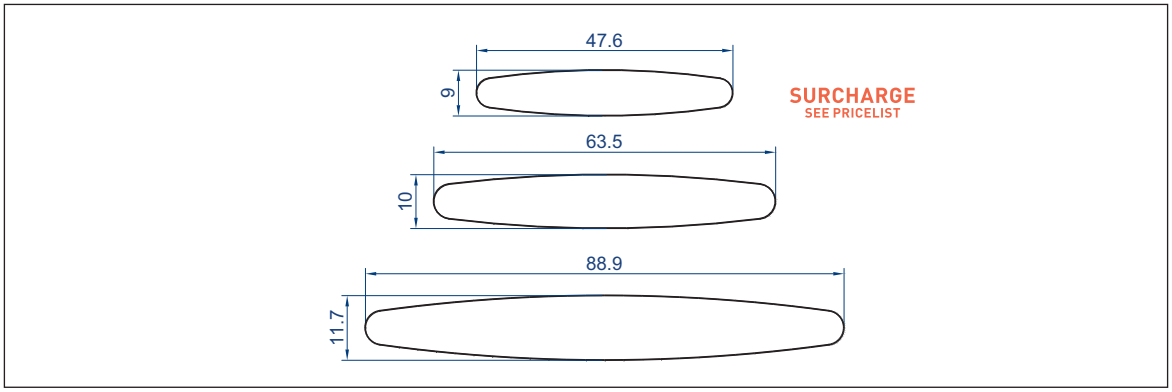
The engineered stile has multiple layers inside, made of hardwood; this imparts excellent durability to the core of the stiles and prevents it from warping.

Jasno Ecowood Plus has, the name says it all, a couple of pluses compared to the Jasno Ecowood.

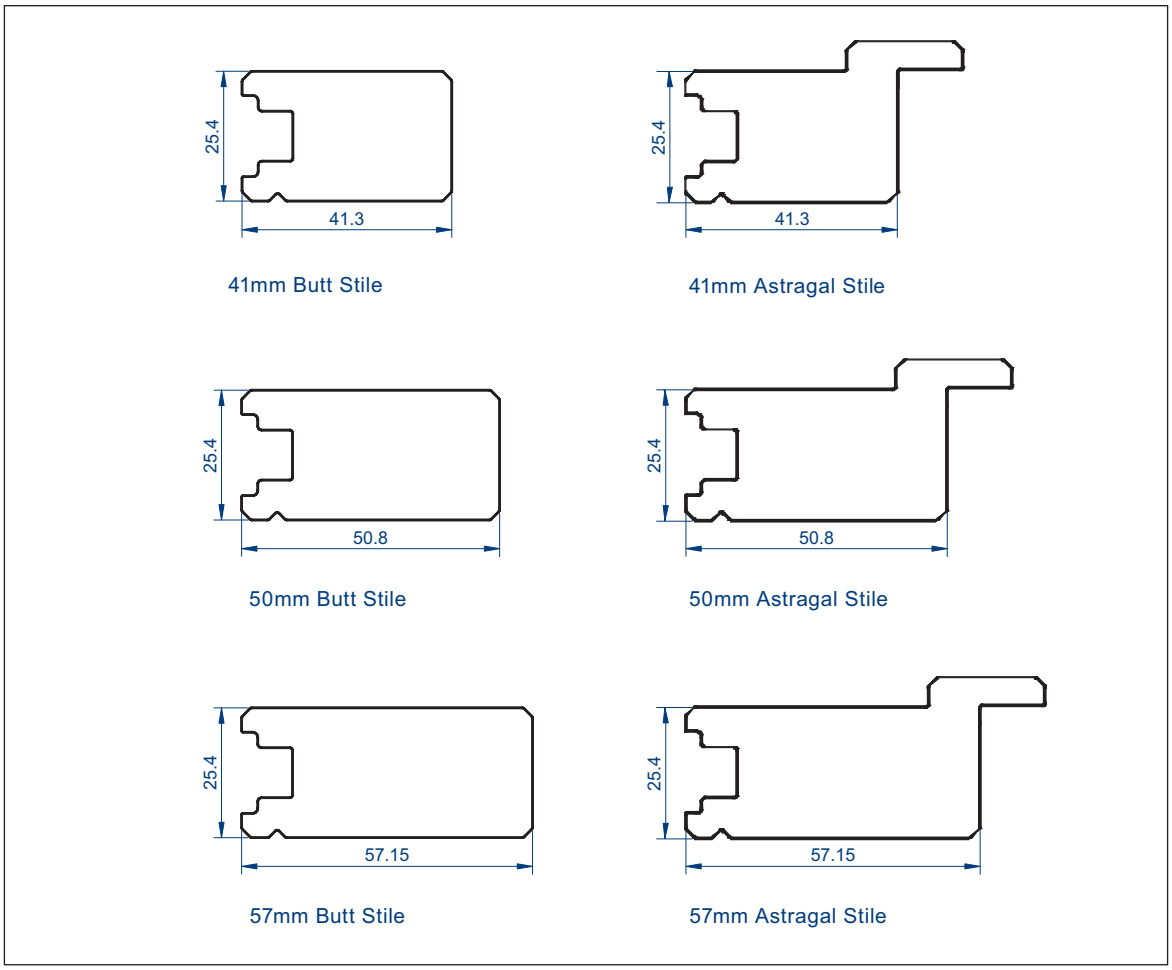
Because the louvers are made of the much lighter ABS, the panels can be made wider. Also the Ecowood plus is available in 18 paint colors.

2. Components

Louver options

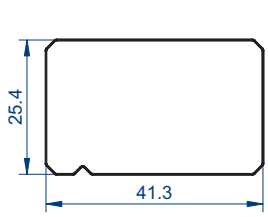


Stile options Ecowood

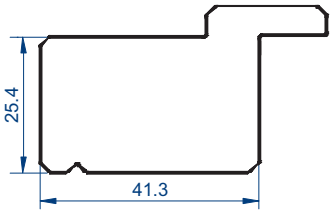


If the panel width exceeds 550mm the 50mm stile will be applied.

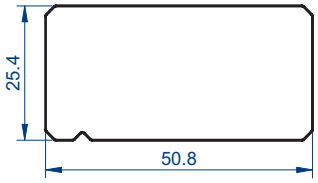
Stile options Ecowood Plus



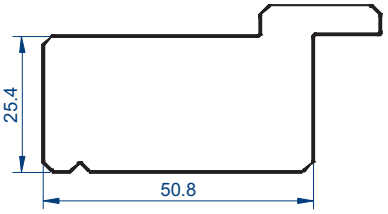
41mm Butt Stile



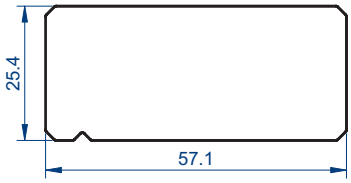
41mm Astragal Stile



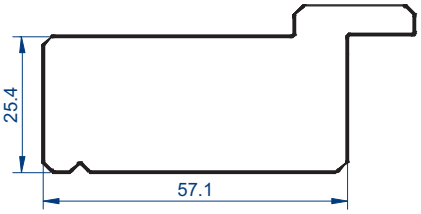
50mm Butt Stile



50mm Astragal Stile

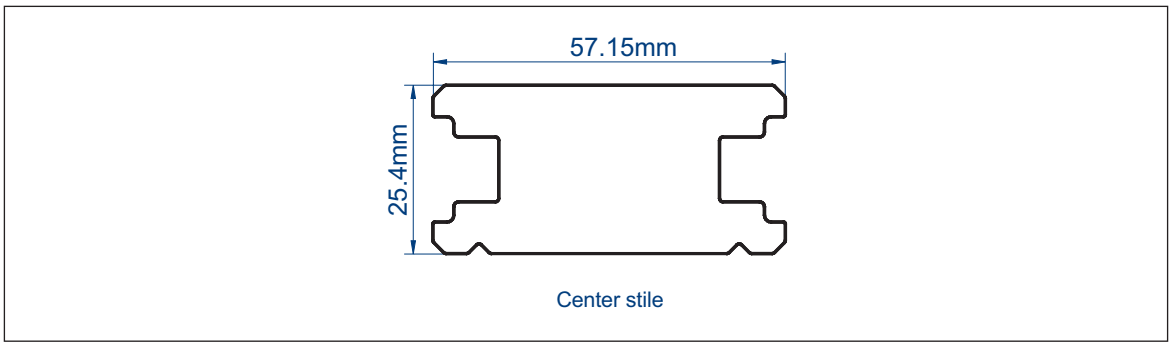


57mm Butt Stile



57mm Astragal Stile

Center stile

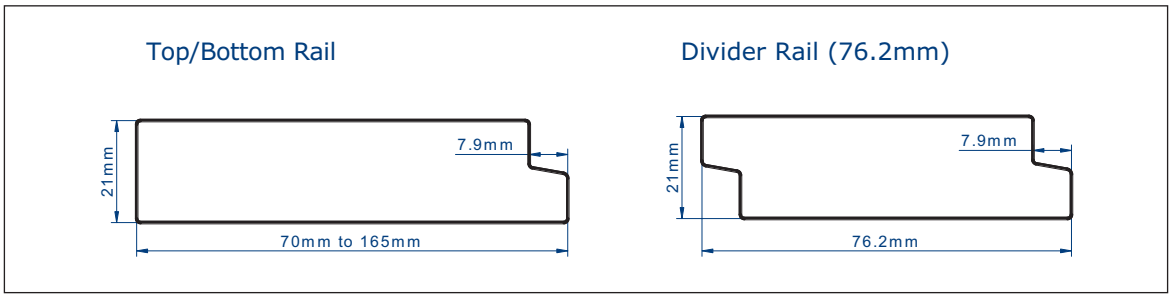


The **stile** has multiple layers inside, which is made of hardwood, and this imparts an intense level of durability to the cores of our stiles and results in a long term stability and durability robust support system for your shutter panels.

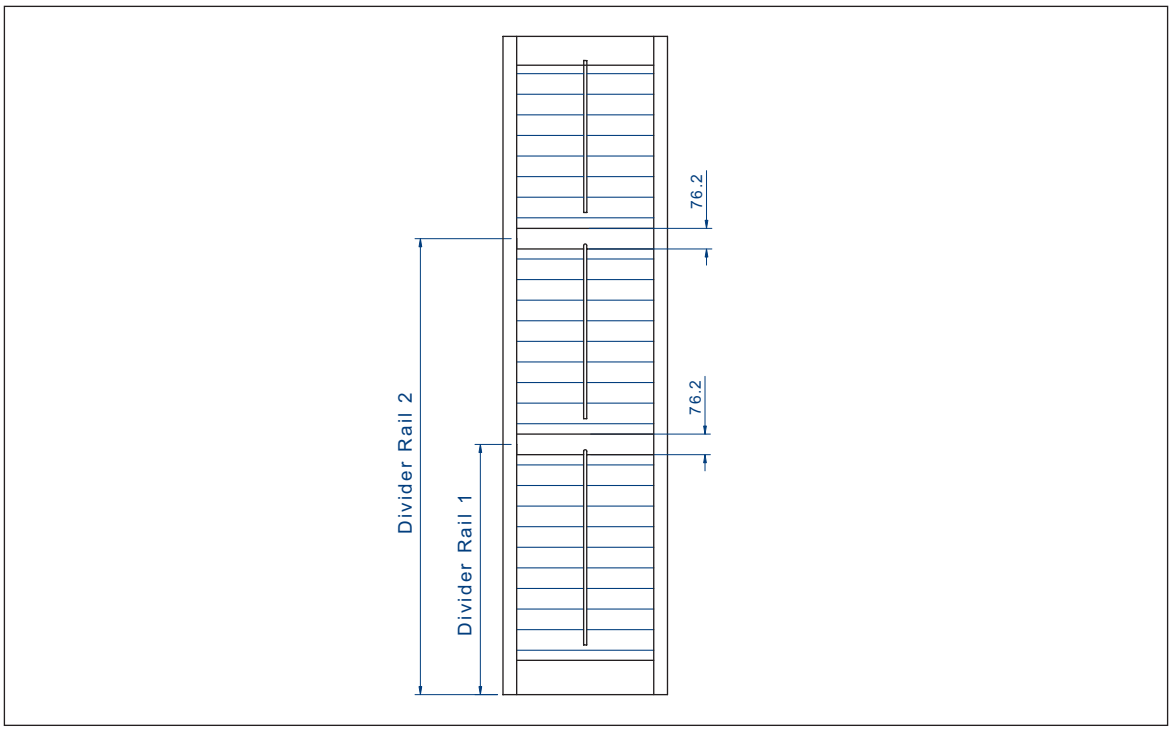
The default position for astragal stile is right over left. (Astragal stile on the right, and butt stile on the left).

The **center stile** is used for NON hinged panels with a maximum width of 1219mm (47mm louver) or 1270mm (63mm – 89mm louver), exactly in the middle of the panel. From 914mm (with a louver size of 63mm and 89mm) and 762mm (louver size 47mm) the center stile is obliged.

Rail and position



Panel height	Min. height top / botom rail
< 508mm	70mm
< 1143mm	76mm
< 1625mm	86mm
< 1980mm	92mm
< 3378mm	111mm



The divider rail splits up a panel in 2 or 3 sections. The sections function separately from each other. When the panel height exceeds 1879mm (Ecowood plus 1980mm), one divider rail is obliged, if the height from top or bottom of panel to the center of the divider rail exceeds 1879mm (Ecowood plus 1980mm) a 2nd divider rail is obliged.

Due to the fact that top and bottom rails are equal in height (default) the final position can vary from the ordered position:

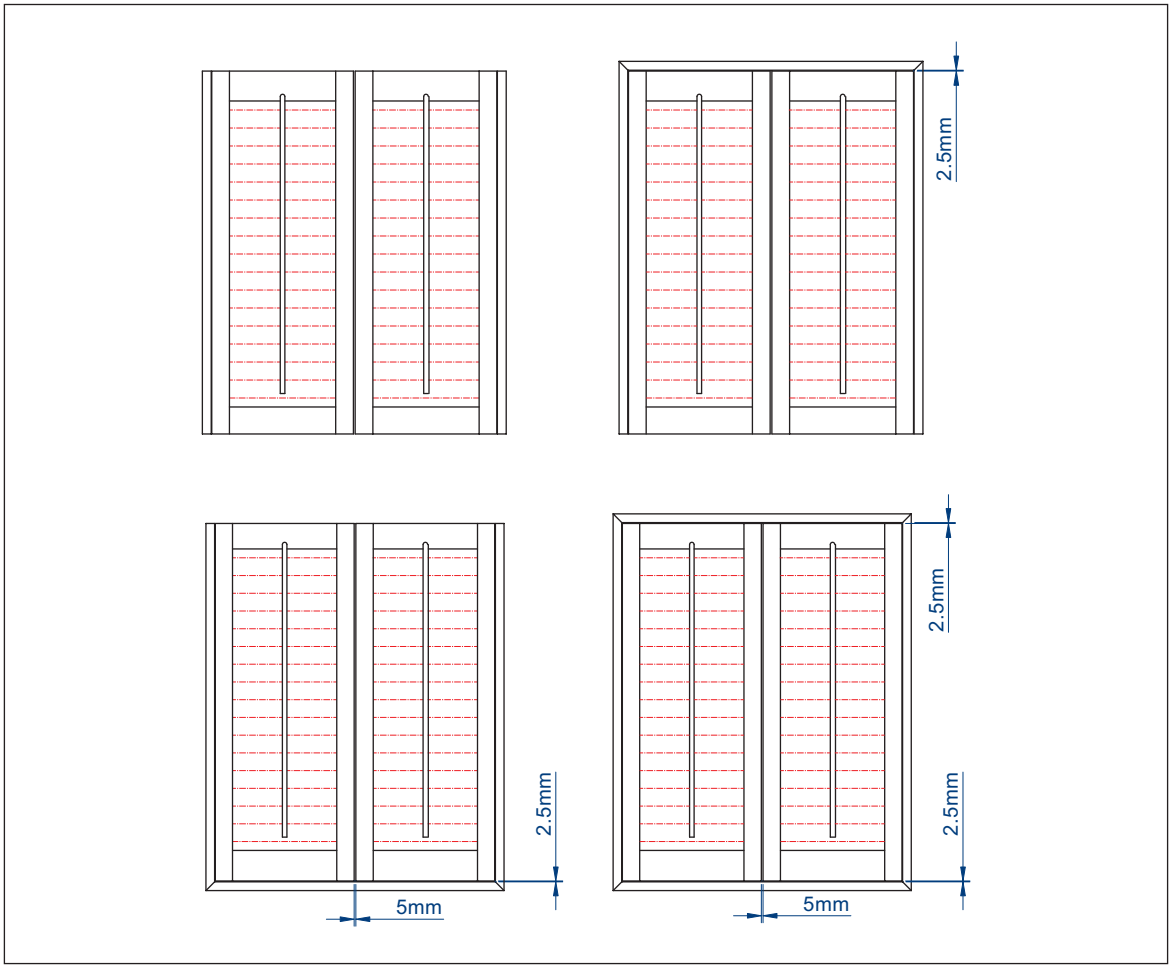
Louver size	Tolerance
47mm	19mm
63mm	25mm
89mm	38mm

When the position of the divider rail must be at exact height as ordered, please use the special remark 'DR at exact height'.

Hang strip options

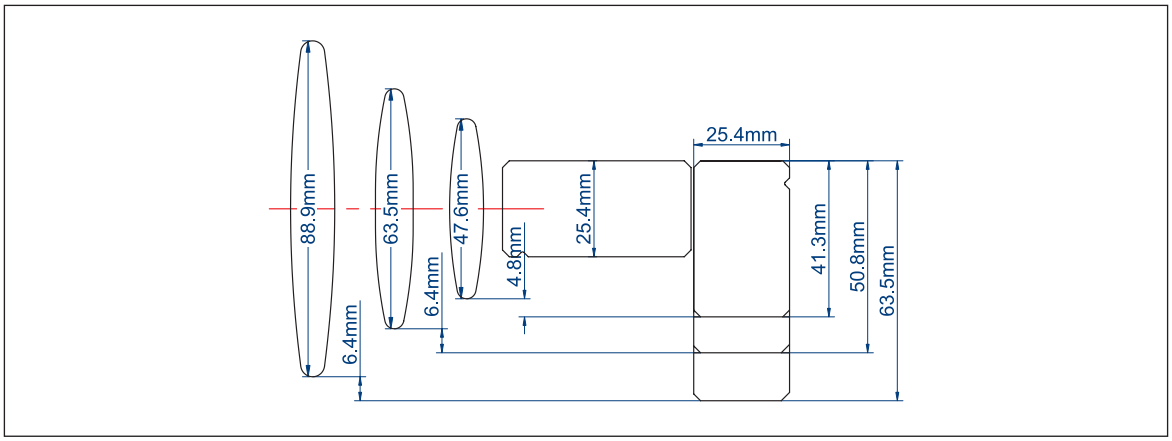
Hang strips can be ordered in the following possibilities:

- 1 side left or right: panel and hang strip have same height
- 2 sides left and right: panel and hang strip have same height
- 3 sides left, right top or bottom: see drawing for gaps
- 4 sides around: see drawing for gaps

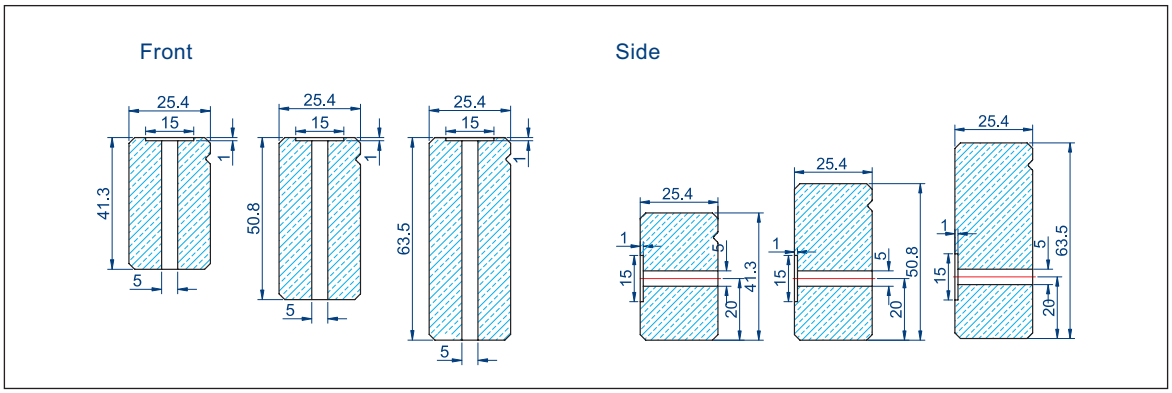


Available hang strips:

25.4mm x 41.3mm, 25.4mm x 50.8mm en 25.4mm x 63,5mm.

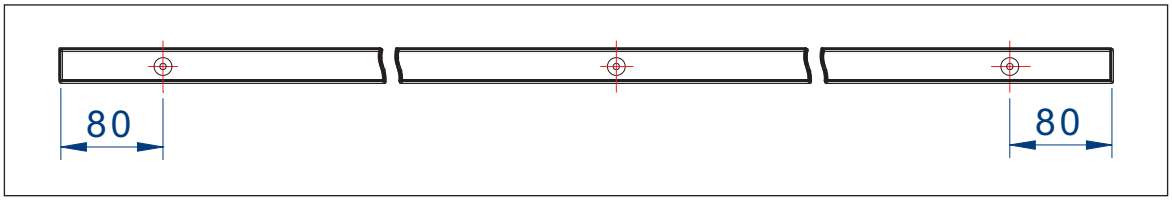


Pre-drill mounting holes:



Hang strip mounting hole pre-drill positions: front, or side. No will holes will be drilled for top and/ or bottom hang strips.

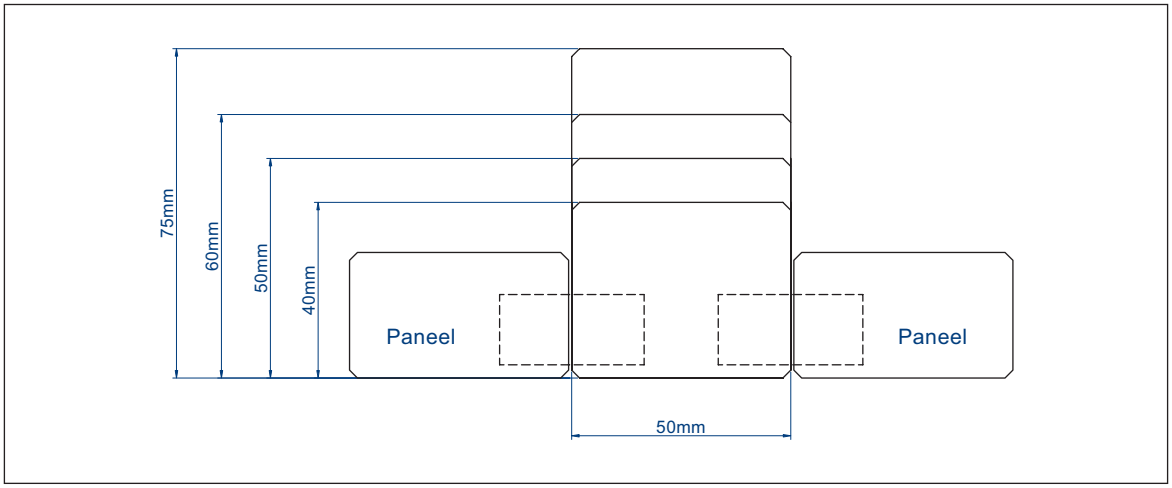
Pre-drill hole: the top & bottom pre-drill hole will be at 80mm from top & bottom.



T-post

T-Posts divide a window vertically into sections. T-Posts can be used to match the design of a window that has a natural break, a mullion, to accommodate panel configurations that require more than two panels, or just for aesthetic purposes.

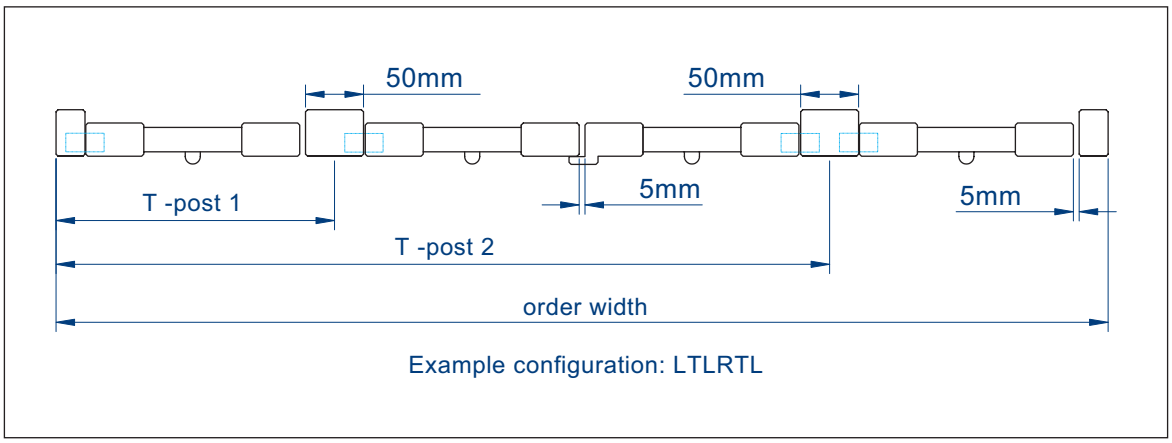
Options:



For T-post, no pre-drilled hole is as default. If you want to pre-drill T-post (always at front), please specify it on the order form. T-post pre-drill hole position will follow the Hang Strip pre-drill hole position.

Position of the T-post

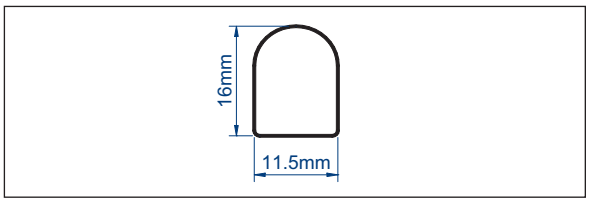
Measure from left to the center of the T-post, see the drawing below:



Tilt Rod

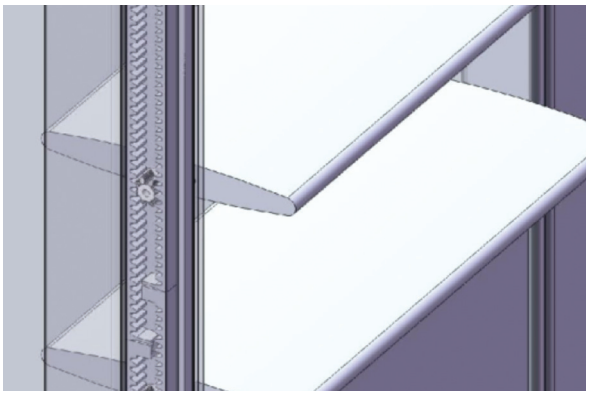
Regular tilt rod

Default is placed at the center.



Concealed gear system (Silent View)

Available for 63mm and 89mm louvers.



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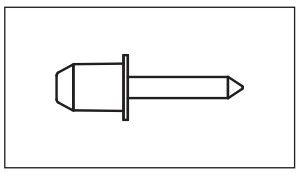
The gear system is concealed in the stile and covered with a cover strip in the same material and color as the shutter.

Important The concealed gear system will be split into half if the panel height is over appr. 1200mm without divider rail, or from center of divider rail to top/bottom of the panel is over this limit. With remote control the section will not be split and the maximum height for one section is 1879mm (Ecowood Plus 1980 mm), due to the fact that the remote will operate the gear system and not the louver.

Louverpins

In order to make it possible that the louver stay in the wished position, the louver pins have resistance. In each panel there is also a screw to adjust the resistance of the louvers.



3. Color options

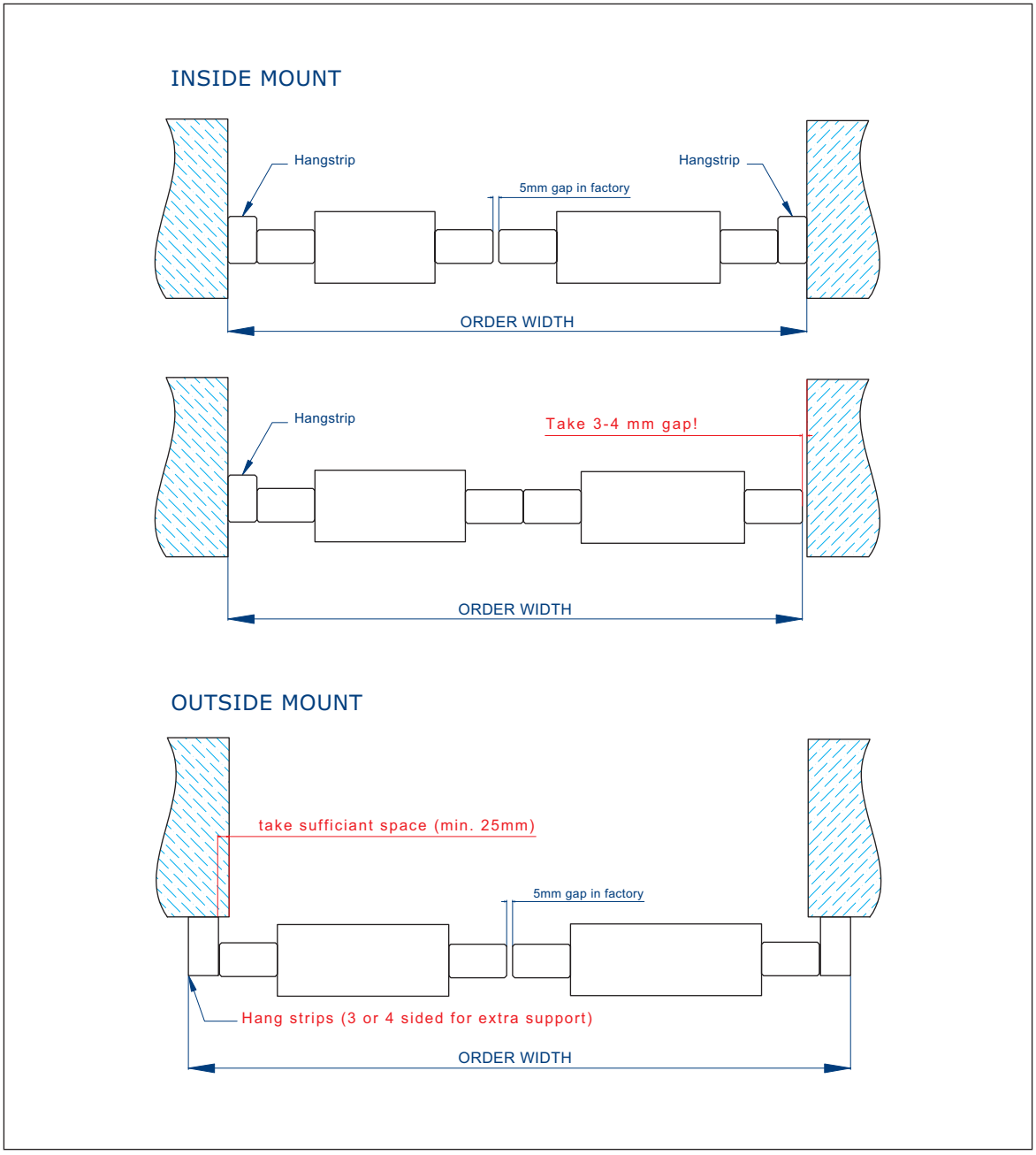
Ecowood	Ecowood Plus	
001 Pure White	001 Pure White	
003 Silk White	002 Extra White	
004 Bright White	003 Silk White	
006 Pearl	004 Bright White	
009 Creamy	006 Pearl	
	008 Marshmallow	
	009 Creamy	
	011 Cameo	
	013 Bisque	
	019 String	
	023 White Dove	
	027 White Birch	
	037 Pointed White	
	048 Chai	
	049 Stone Grey	
	051 Brown Grey	
	053 Clay	
	836 Classic Black	SURCHARGE SEE PRICELIST

Due to the nature of material manufacturing, colors may vary slightly between dye lots. Please order shutters for the same home or room at one time. Slight variations may also occur between the finished products and the color decks.

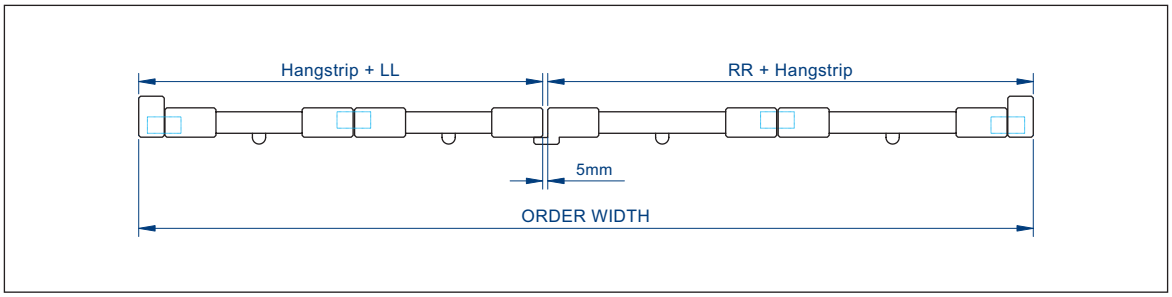
Special colors are **NOT** available in ecowood.

4. Order size definitions

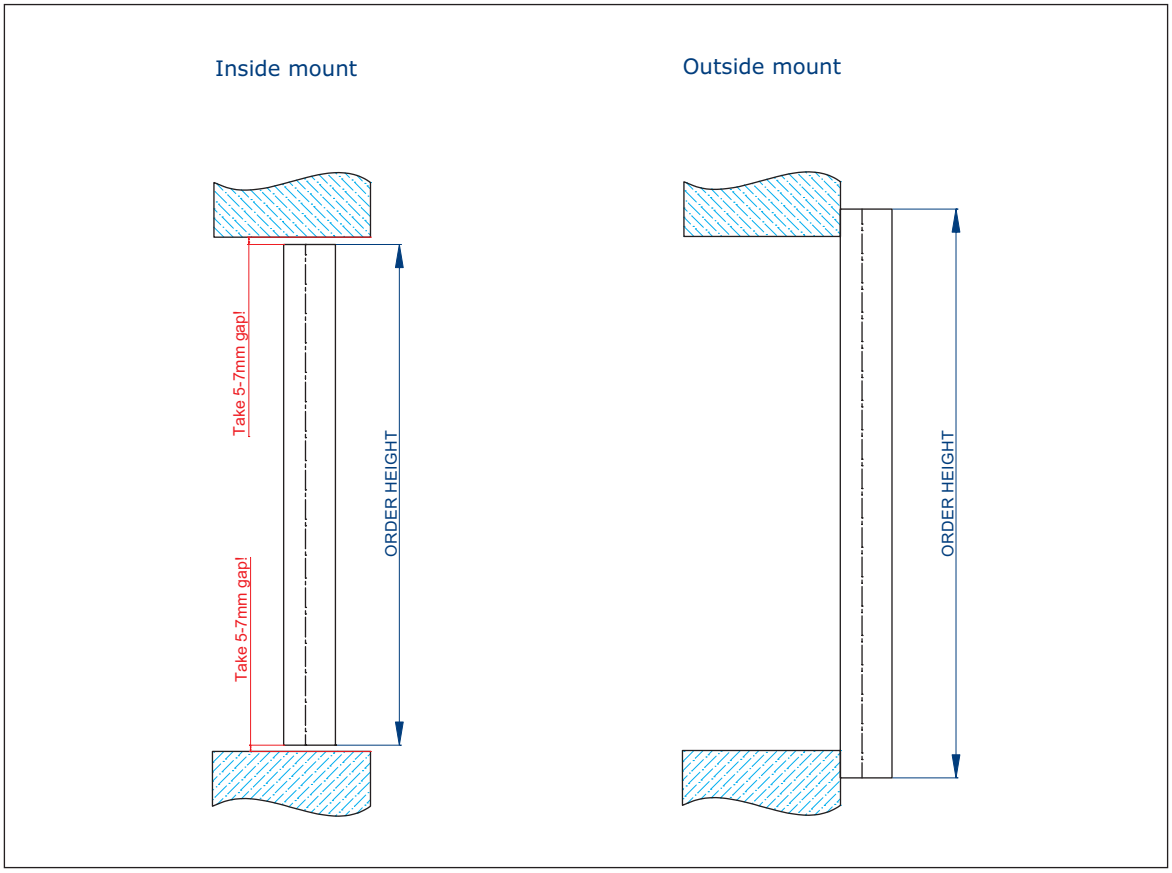
Order width for the different mounting methods:



Different panel sizes in one window are possible. Please indicate this in special notes.



Order height for the different mounting methods:



For order height and width when ordering track systems:

Please go to the chapters Bypass or Bifold track systems.

5. Dimensions and gaps

Ecowood

Louver	Panel width in mm				Panel heights in mm		
		1 hinged panel OR in bypass track	NON hinged panel OR in bypass track with center stile	2 hinged panels with bottom support OR in Bifold track		WITHOUT divider rail	1 and/or 2* divider rail
	Min.	Max.	Max.	Max.	Min.	Max.	Max.
47mm	152	600	1219	600	254	1879	3378
63mm	152	750	1270	600	254	1879	3378
89mm	152	750	1270	600	254	1879	3378

Ecowood Plus

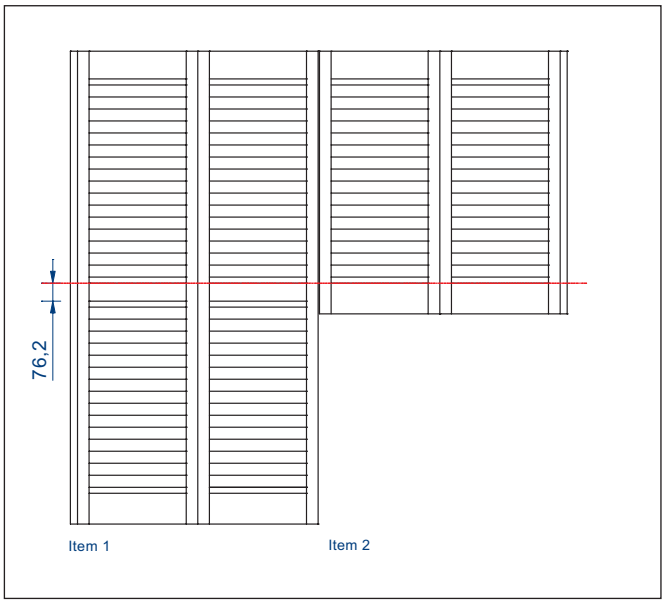
Louver	Panel width in mm					Panel heights in mm		
		1 hinged panel OR in bypass track	NON hinged panel OR in bypass track with center stile	2 hinged panels with bottom support	2 hinged panels in bifold track		WITHOUT divider rail	1 and/or 2* divider rail
	Min.	Max.	Max.	Max.	Max.	Min.	Max.	Max.
47mm	152	600	1219	600	600	254	1980	3378
63mm	152	914	1270	600	600	254	1980	3378
89mm	152	914	1270	600	600	254	1980	3378

- **Always support the panels at the bottom due to the higher weight of Ecowood panels.**
- Different panel sizes in one window are possible. Please indicate this in the remarks of the online order system.
- * When the panel height exceeds 1879mm (Ecowood Plus 1980mm), one divider rail is obliged, if the height from top or bottom of panel to the center of the divider rail exceeds 1879mm (Ecowood Plus 1980mm) a 2nd divider rail is obliged.
- maximum of 2 hinged panels without a track system.

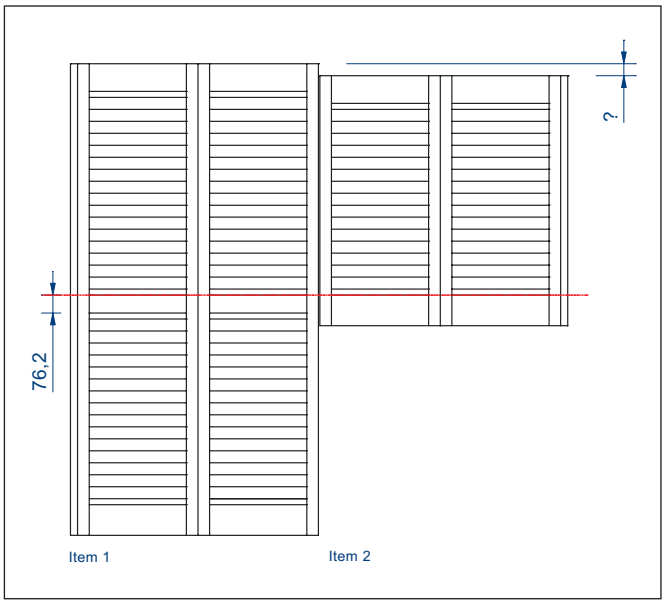
Gap between panels / panel and Hang Strip (where there are hinges)	1,5mm
Gap between panels / panel and Hang Strip (no hinges)	5mm
Gap between panel and frame on top and bottom	2,5mm
For Bi-fold system, gap between panel and side frame/to the end of header when no side frame required	6,5mm
For By-pass system, gap between panel and side frames	0mm
For By-pass system, gap to end of header/track for each side when no side frames required	3mm

6. Matching

When there are windows/doors with different heights close to each other, please make a remark on the order form, so divider rail can be lined with top/bottom rail. The TOP of the divider rail will be brought in line with the top of bottom rail. The height of divider rail (76mm) will never be the same as the height of the bottom rail.



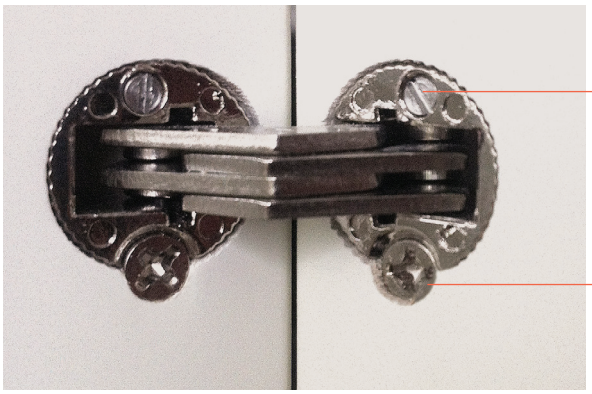
For this type of window/door, please indicate 'align item 1 and item 2 at top, and bring divider rail of item 1 in line with bottom rail of item 2'.



For this type of window/door, please indicate 'item 2 is x mm lower than item 1, bring divider rail of item 1 in line with bottom rail of item 2'.

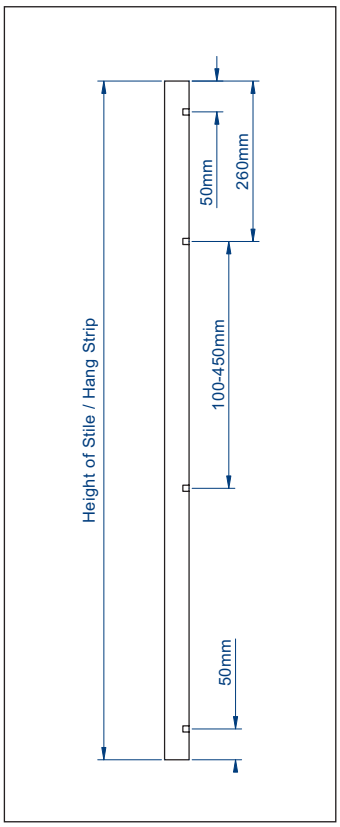
7. Hardware

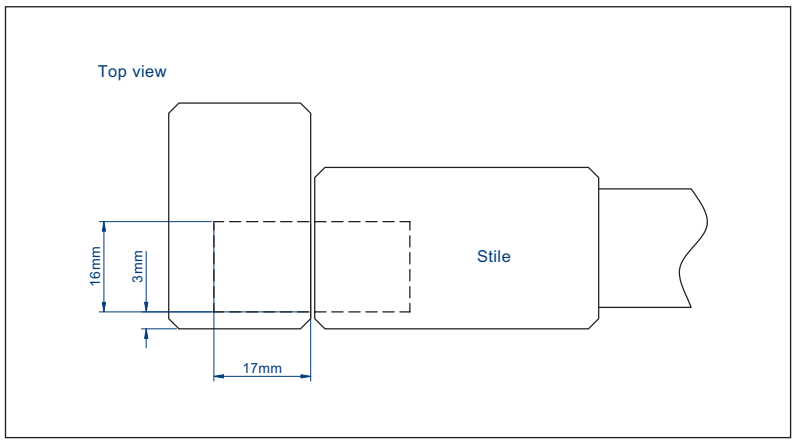
Hidden Hinge



Default Color: Nickel
Optional color: Brass

The hidden hinge give the shutters a modern and clean look. It also makes sure the construction is stronger in comparison with a contemporarily hinge. Note: When there has to be a cutout in hang strip, note that hinge may be in the way!





Button catch and lock for connecting panels

Installing button catches makes the end result even better... (order separate). Also loose panels can be mounted vertically with button catches.

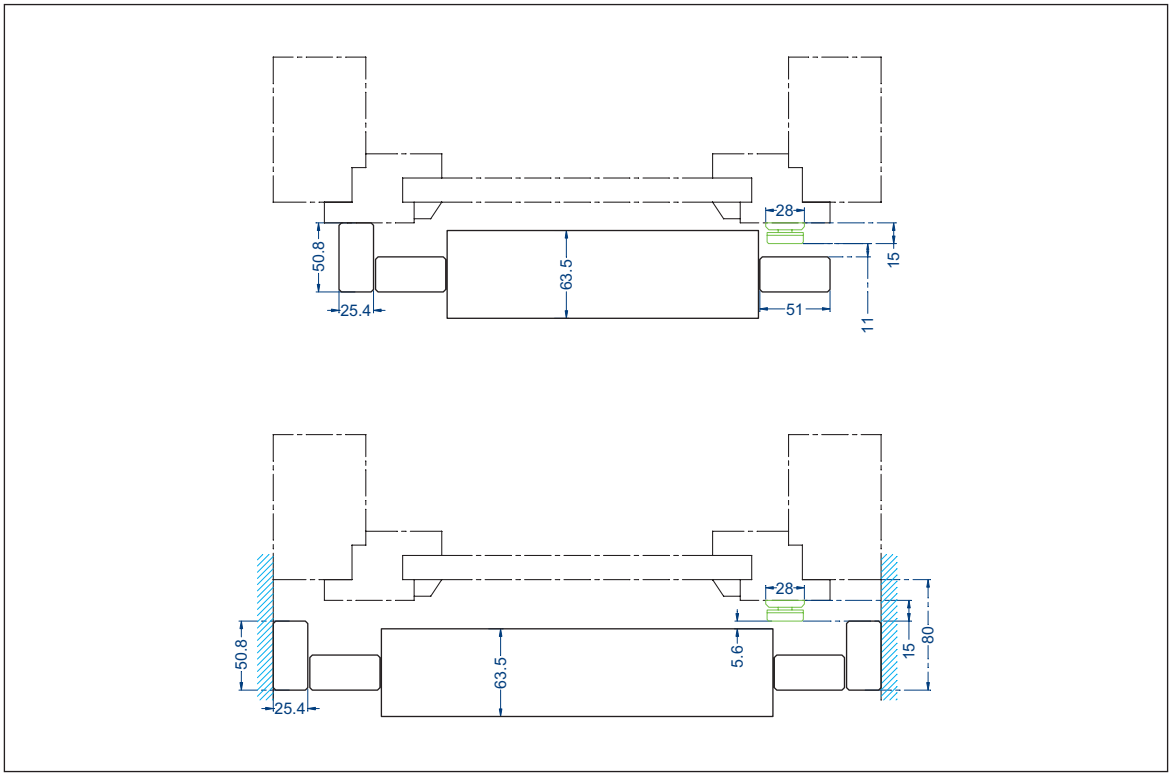
Attention Loose panels which are mounted at an angle likewise (like roof windows) always need additional fixation in order to prevent the panels falling down!

Material: Brass or Nickel plated

The lock for connecting panels improves the usage of shutters and it gives a beatiful look (order separate).

Material: Brass or Nickel plated

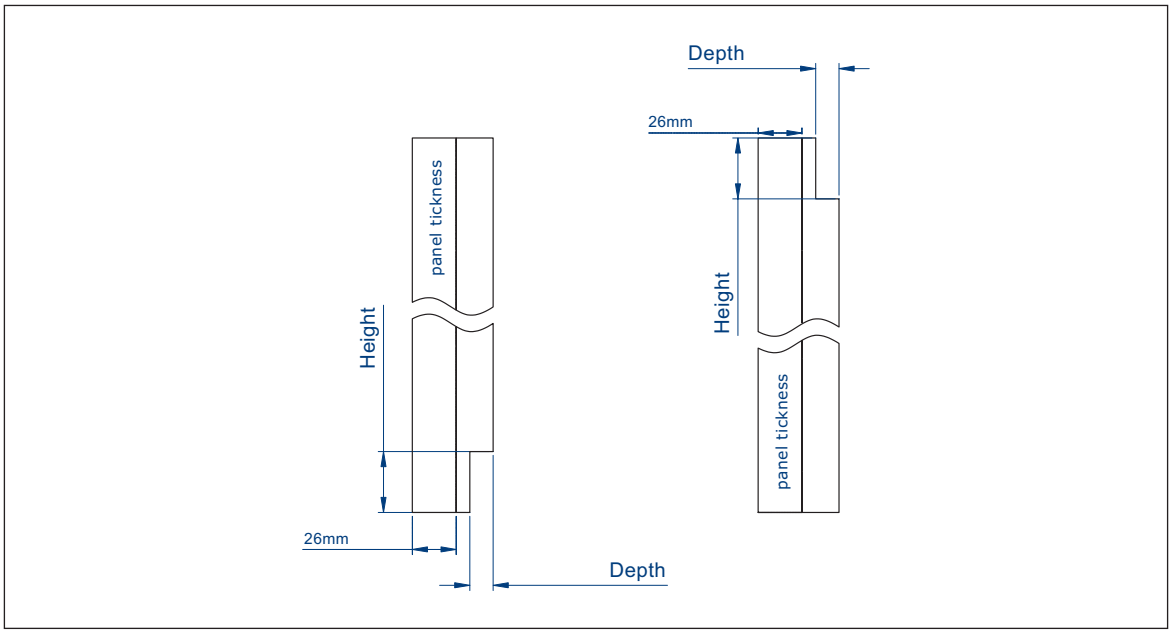
Window handle flat 15mm



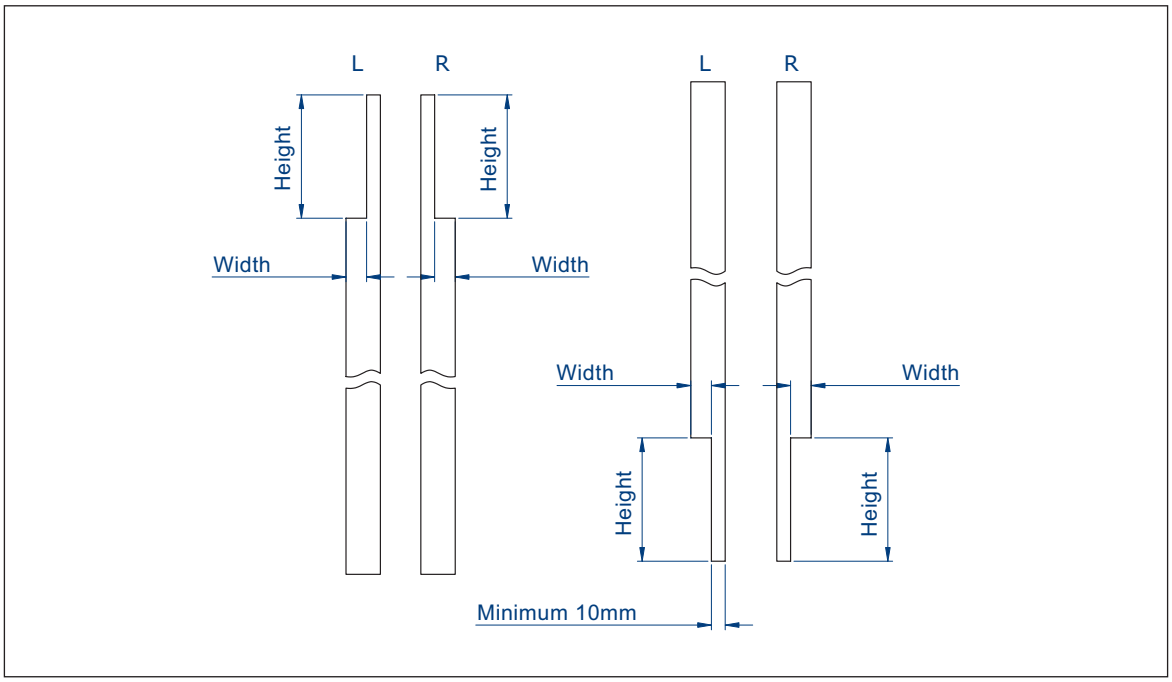
Always support the panels at the bottom or install with button catches.

8. Cutout in hang strips

It is possible to order a cutout at the back of a hang strip (top and/ or bottom).
The cutout cannot be deeper than the panel thickness of 26mm:



It is also possible to order a cutout at the side of the hang strip (top and/ or bottom) In most cases the hinge at top / bottom will be cancelled:



9. Bi-fold track system

General

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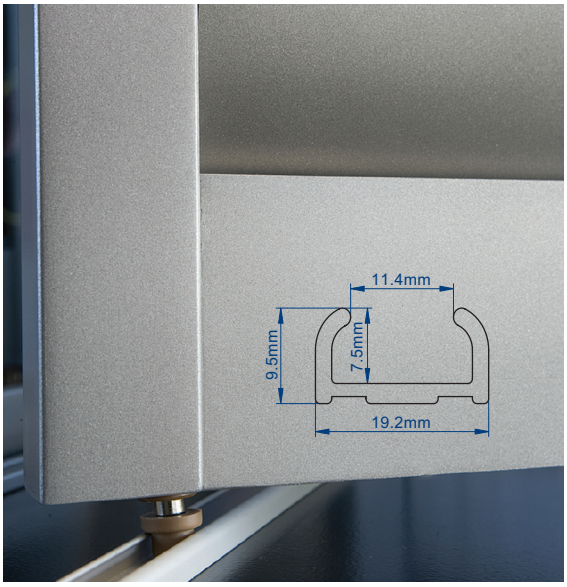
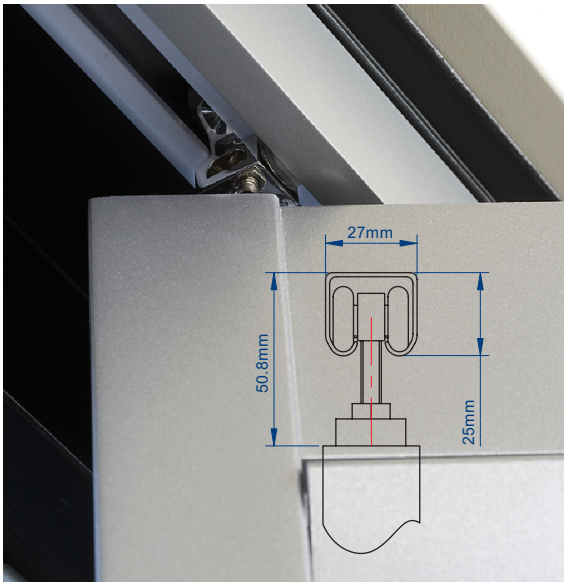


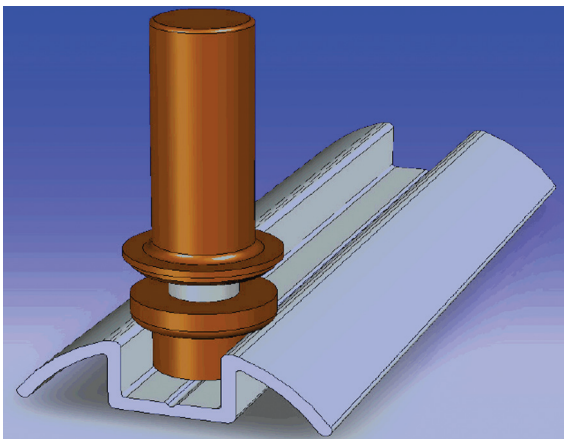
aluminum floor track
with spring loaded guide



aluminum top track with wheel carriers
aluminum color

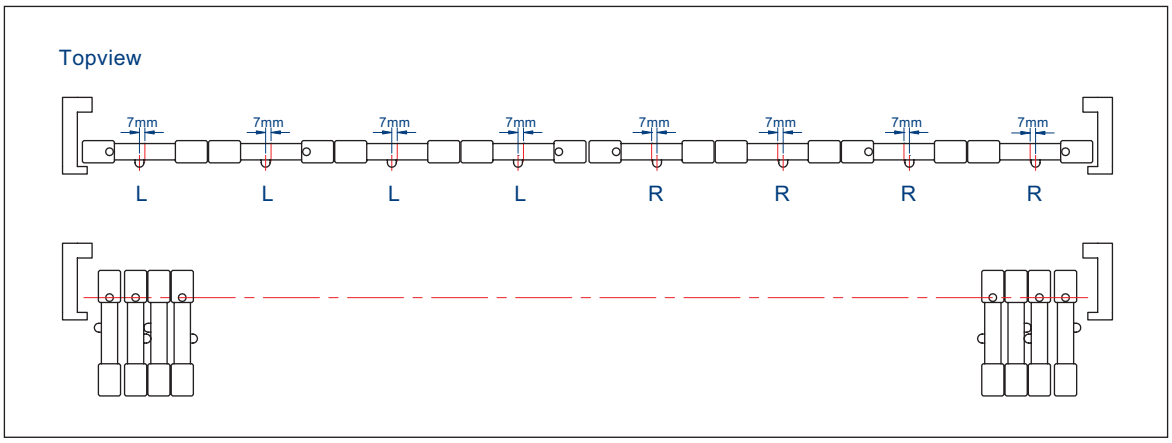
Floor track and top track will be predrilled and is available in the aluminum color.

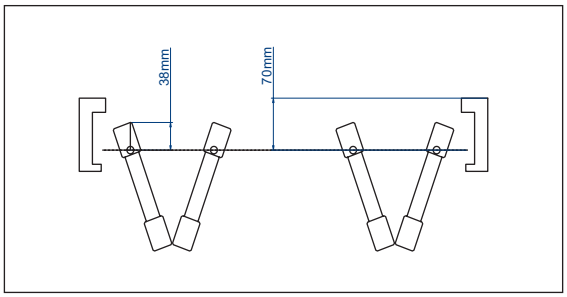
New option (no surcharge) is the following **wider floor track**:



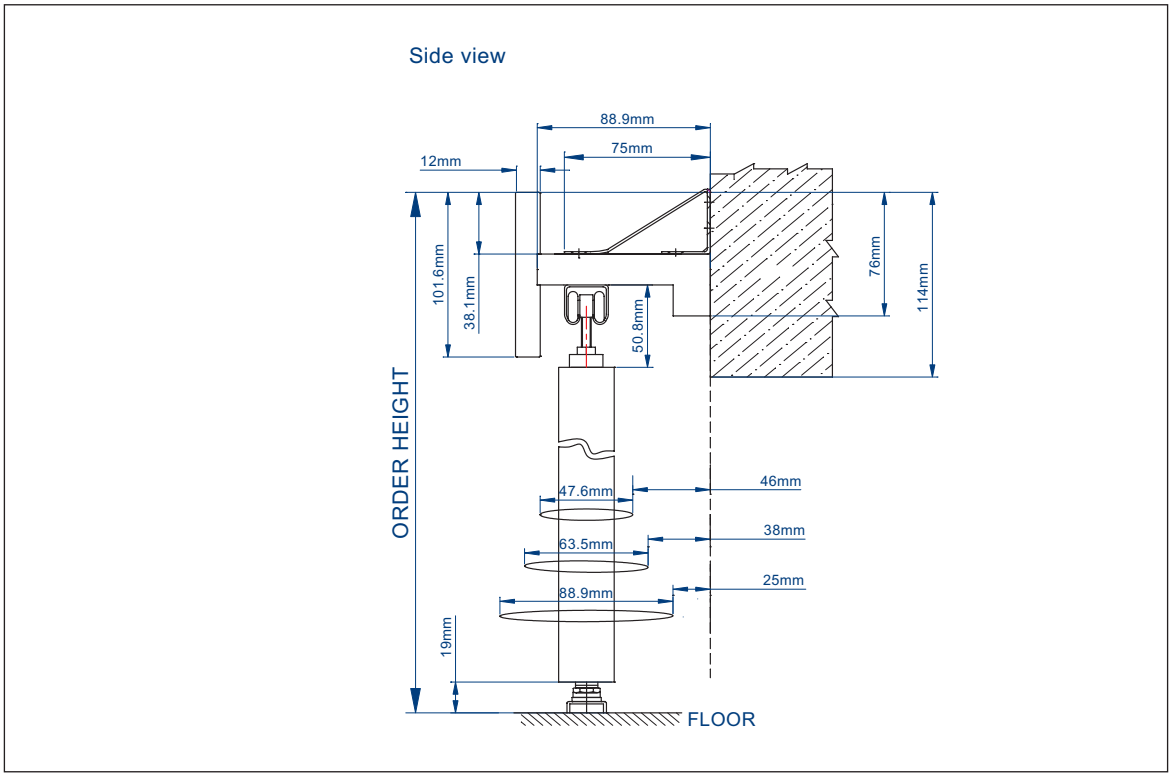
Total width 36mm / Height 9,5mm

The tiltrod is not exactly in the center of the panel when ordering more than 2 hinged panels (offset = 7mm), in order to make the total width of the package as small as possible. Panel configurations are: LL, RR, LLRR, LLLL, RRRR, LLRRRR, LLLLRR and LLLLRRRR.



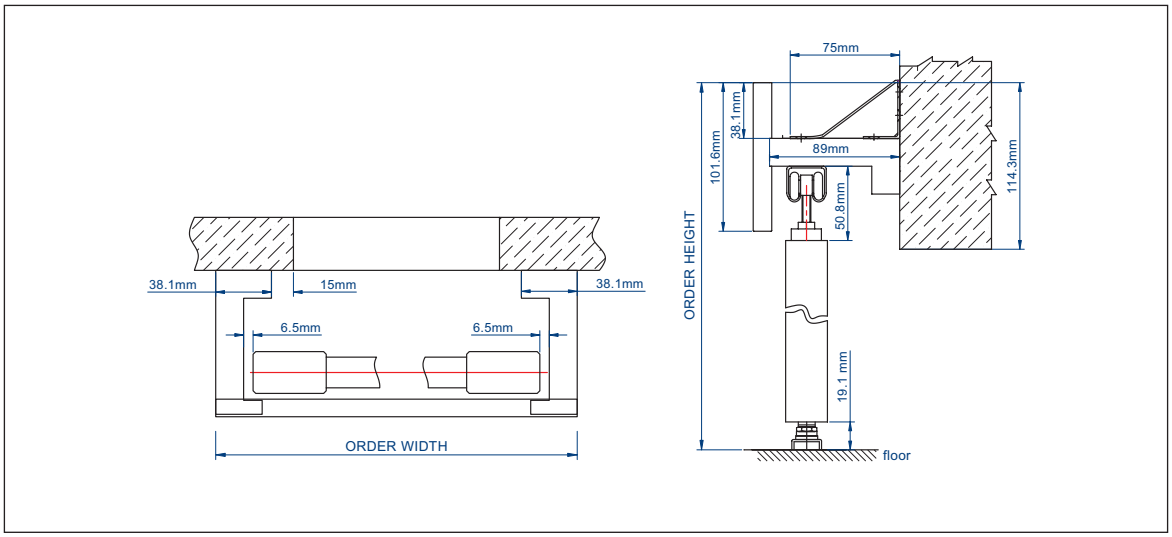


Distance from center of the track to end of panel in opened position. Take care of this regarding handle pivot and other possible obstructions.

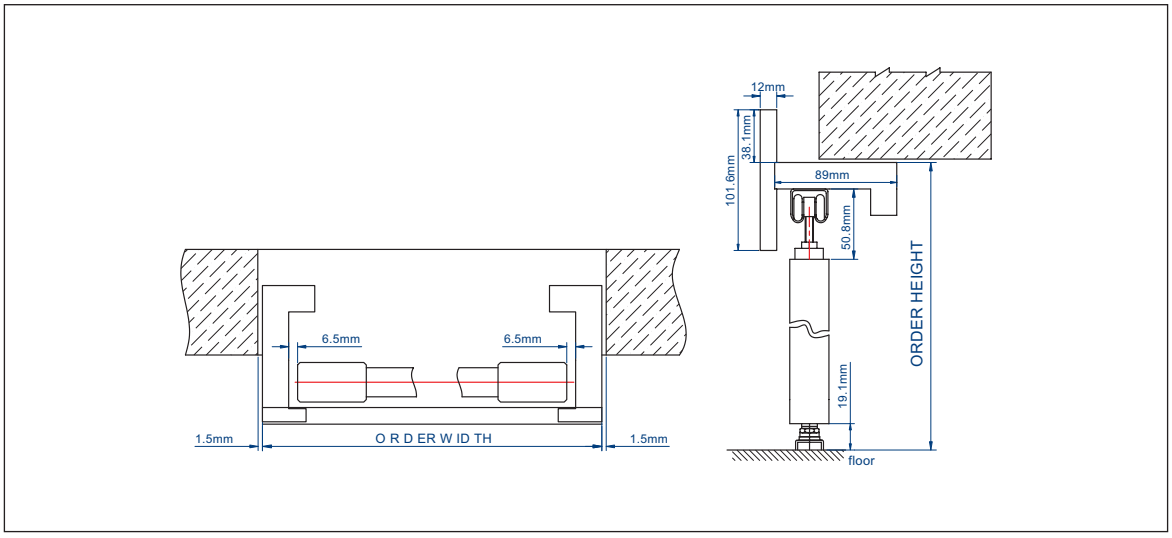


Mounting Type

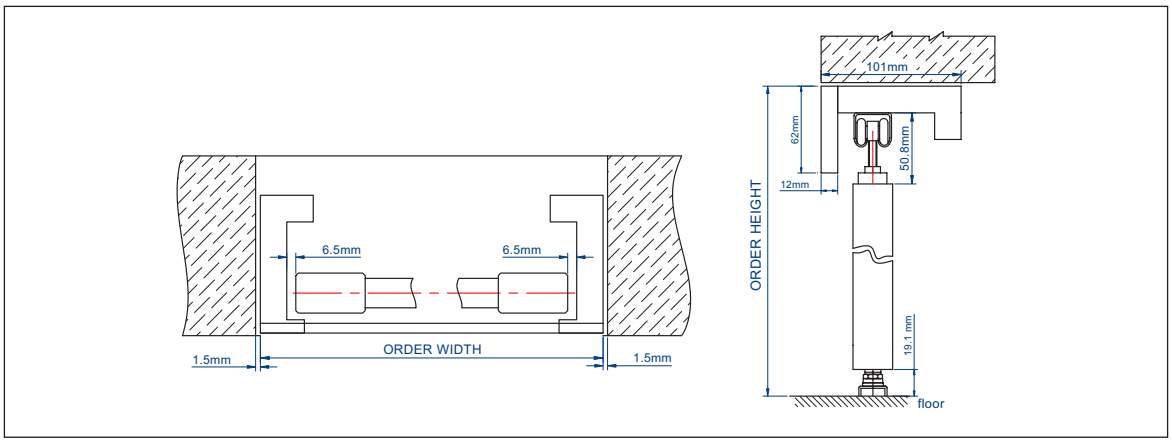
Outside mount with header and side frames



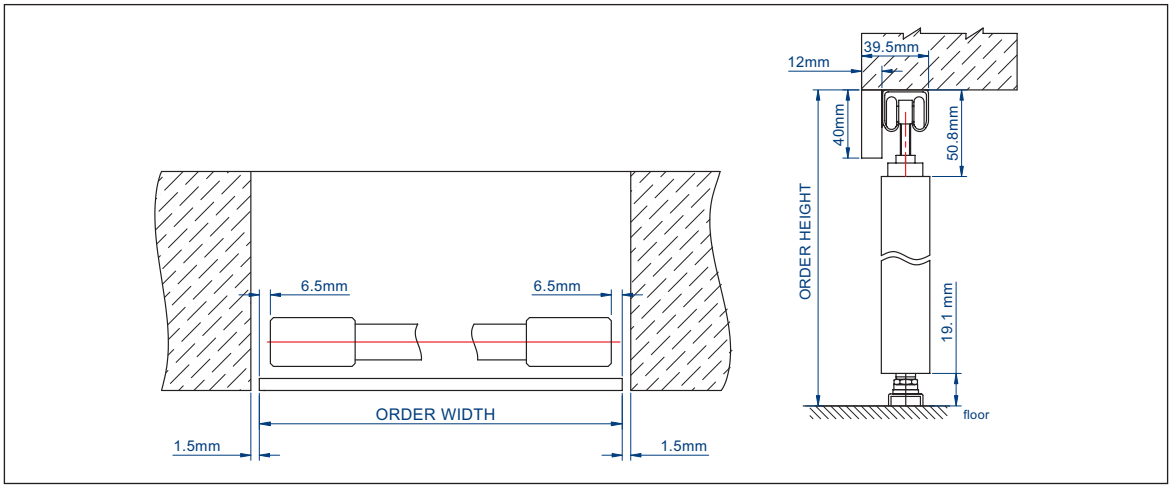
Semi-inside mount with header and side frames



Inside mount with header and side frames

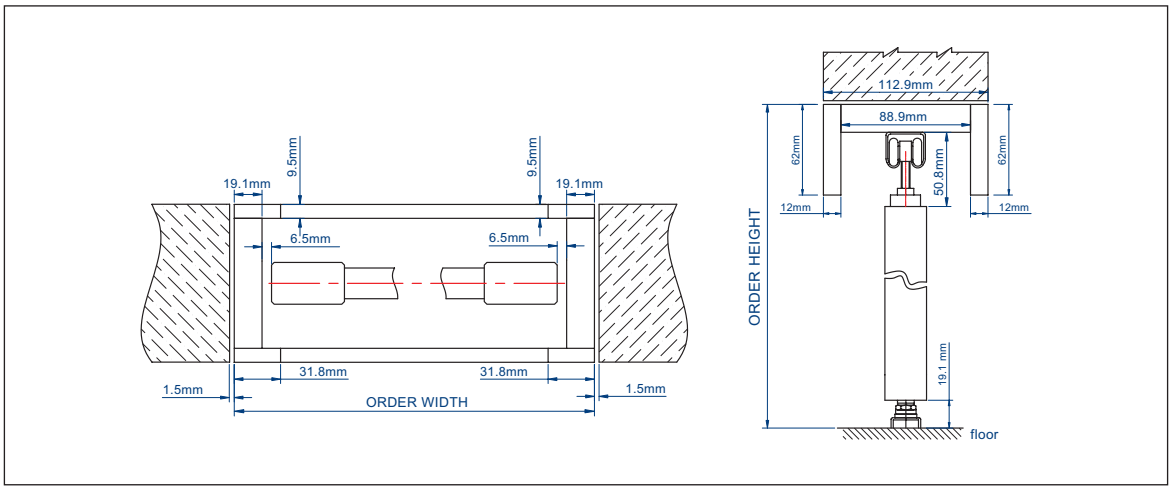


Inside mount without header and no side frames



Inside mount in door opening

(top fascia and side fascia on both front and back, no fascia returns)

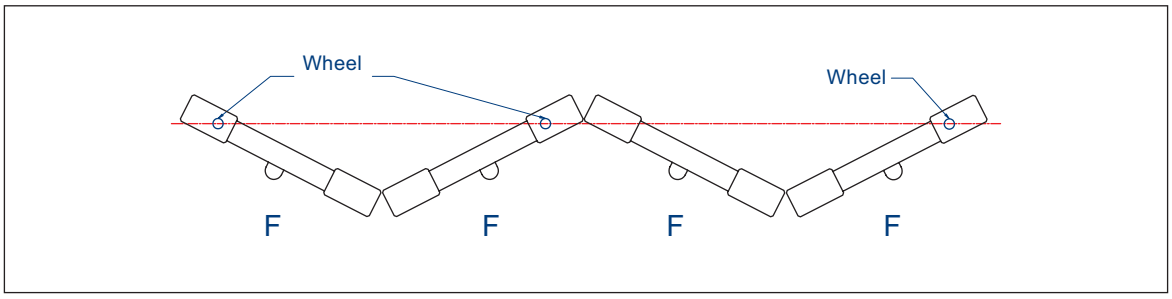


Floating bi-fold system

See bi-fold system for options. Difference is that there is no top/bottom pivot, instead of that are wheels in top track and spring loaded guide in floor track.

This makes it possible to fold and slide free in 1 track.

Writes 'F' for floating panel, use a dash when the panels need to be split. The tilt rod will be offset 7mm to the right from center of panels if multi fold. The gap is 5mm where there are two panels meet without hinges.



10. By-Pass System: Louvers closed position

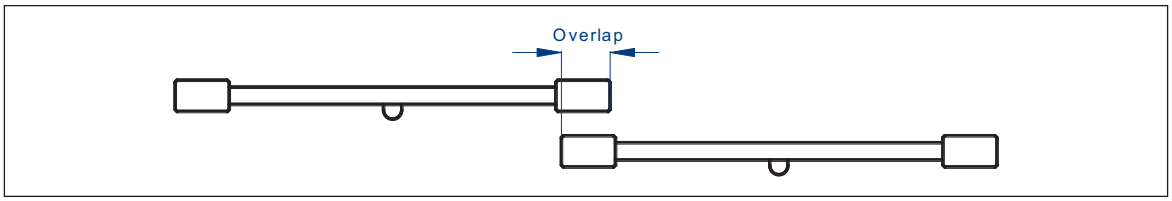
General

SURCHARGE
SEE PRICELIST

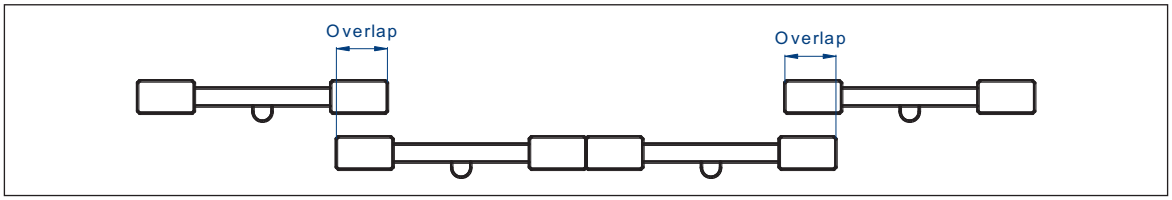
The louvers have to be in closed position if sliding the doors in the track. Due to the fact that each panel has 2 wheel carriers, the panel width can be ordered up to 1219mm or 1270mm. (with a center stile, see chapter dimensions and gaps).

Top view

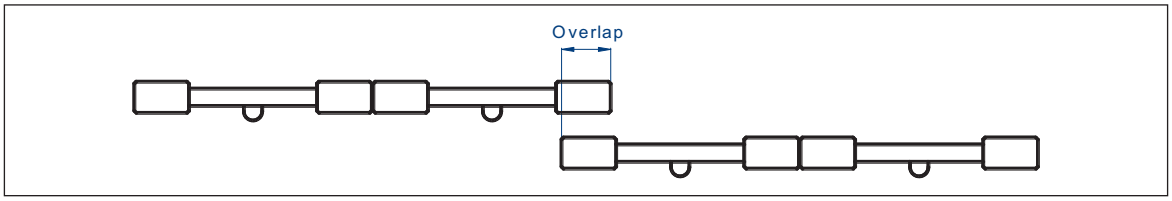
2 panels with 1 overlap



4 panels with 2 overlaps

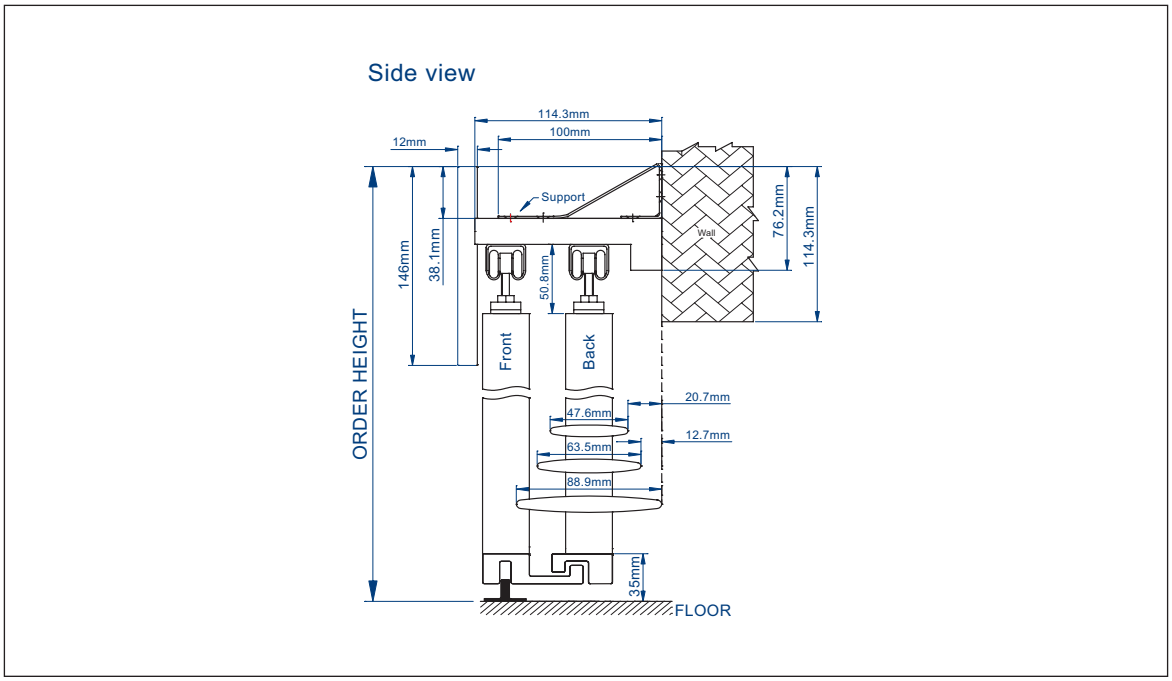


4 panels with 1 overlap



Overlap: 31mm for 41mm stile, 40mm for 50mm stile.
(Overlap = Stile width – 10mm)

The final panel width will be determined by the number of panels and its overlaps.

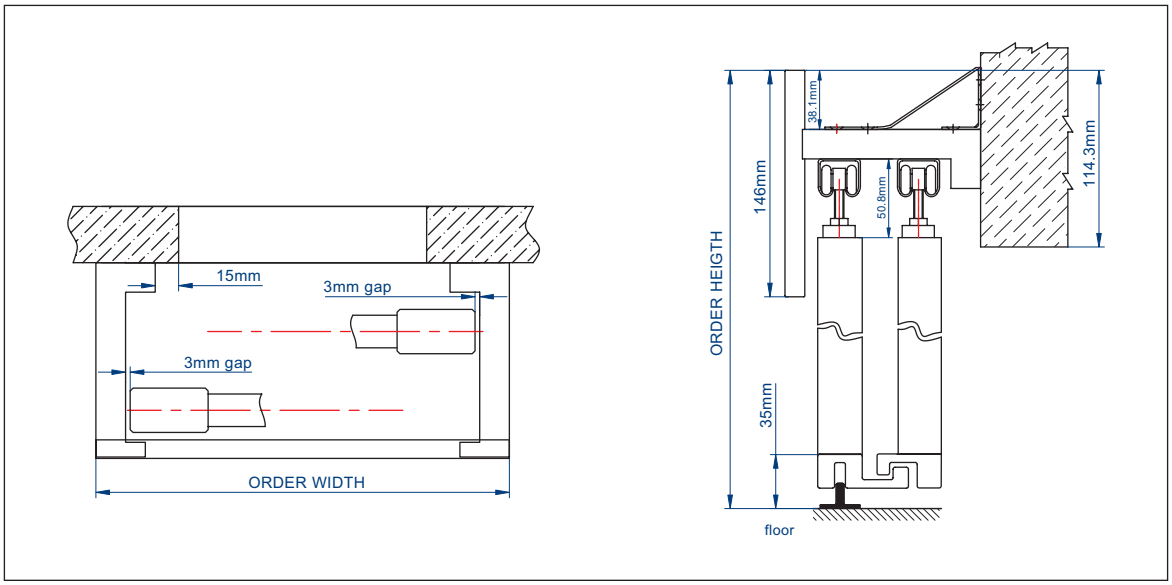


The nylon guide will be installed on the floor in order to keep the panels at place (see above drawing).

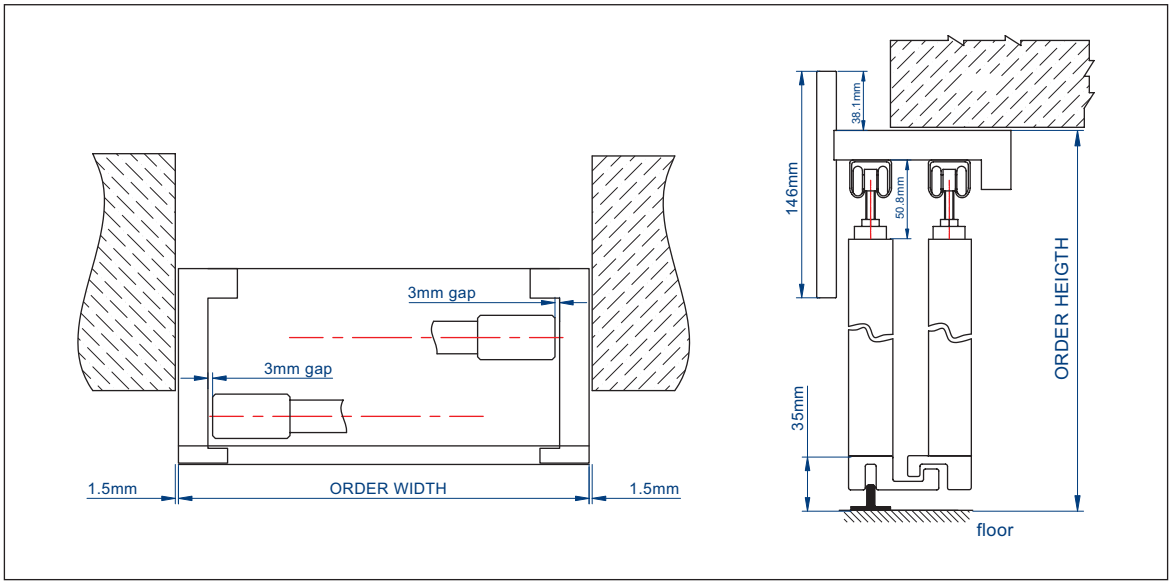
Important note if the panel width exceeds 450mm it is strongly advised to use the floor track system (see chapter bi-fold track system). Thus the panels are locked completely, which prevents the panels touching each other. Also the panels will be straight relative to each other (2 floor tracks will be installed over the entire width).

Mounting Type

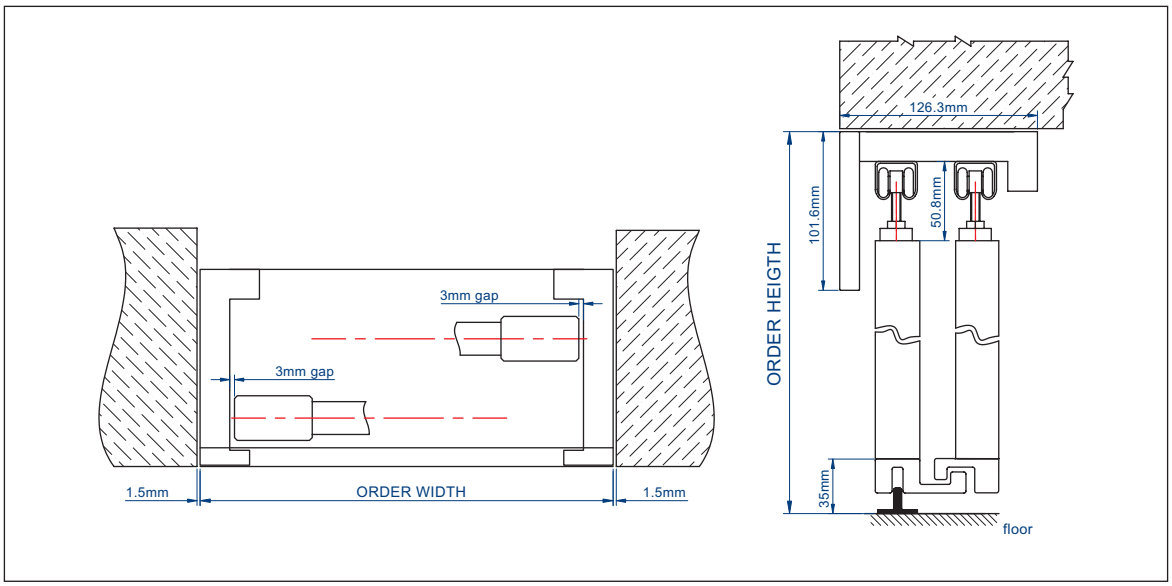
Outside mount



Semi-inside mount



Inside mount



11. Open Bypass system: Louvers opened position

General

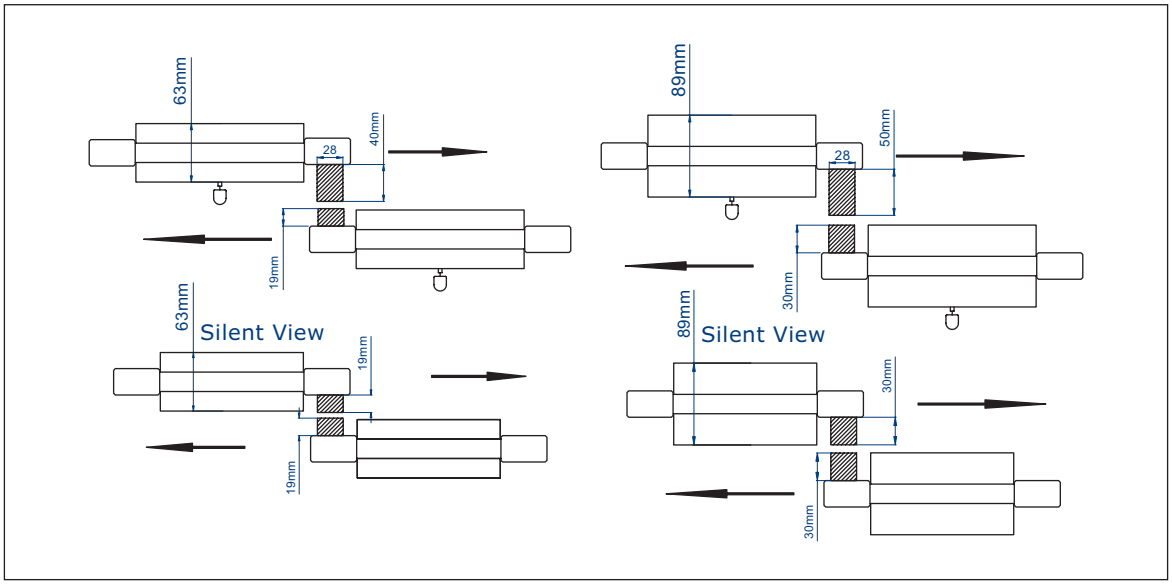
SURCHARGE
SEE PRICELIST

The louvers have to be in closed position if sliding the doors in the track.
Due to the fact that each panel has 2 wheel carriers, the panel width can be ordered up to 1270mm. (with a center stile).

Boxout size and light block size will be different for 63mm louver and 89mm louver (Only available in 63mm and 89mm louver).

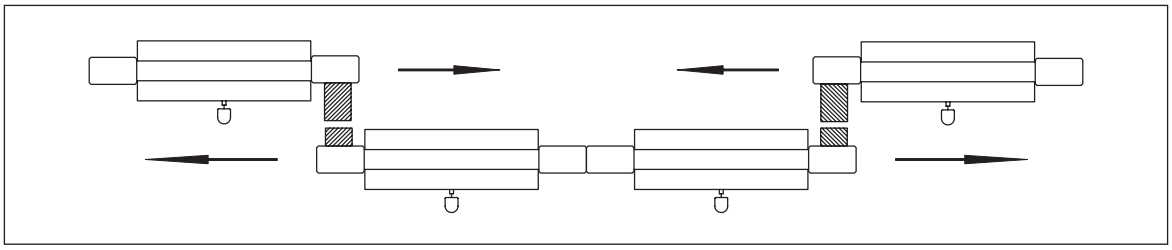
Top view

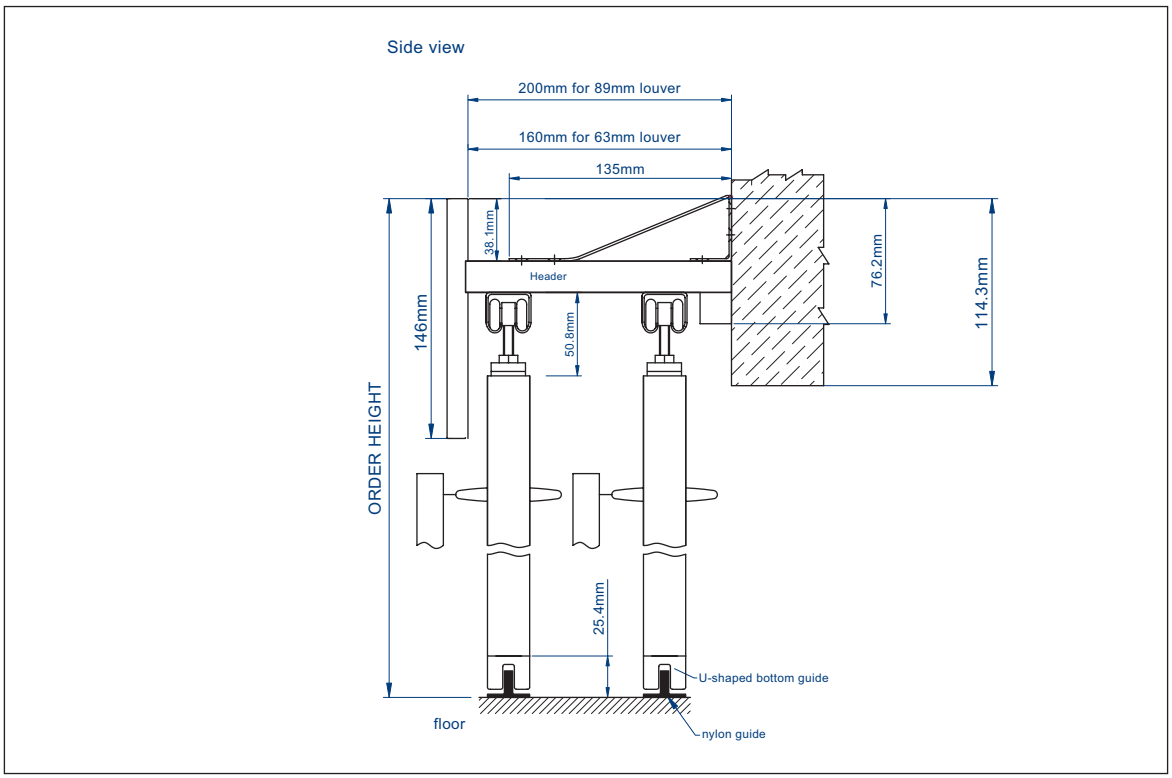
Light blocks will be installed in order to prevent to much light coming in. For this reason it is important to know up front in what position the panels have to be installed:



Example

BFFB: from left to right it means 1 panel in the back, 2 panels in the front and 1 panel in the back track:



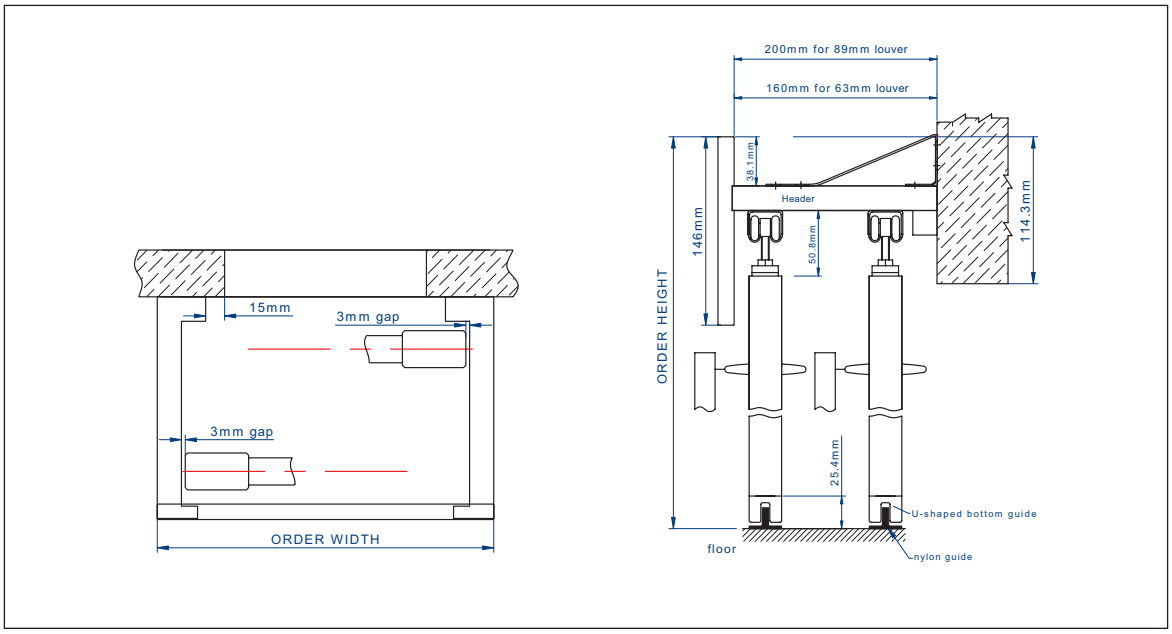


The nylon guide will be installed on the floor in order to keep the panels at place (see above drawing).

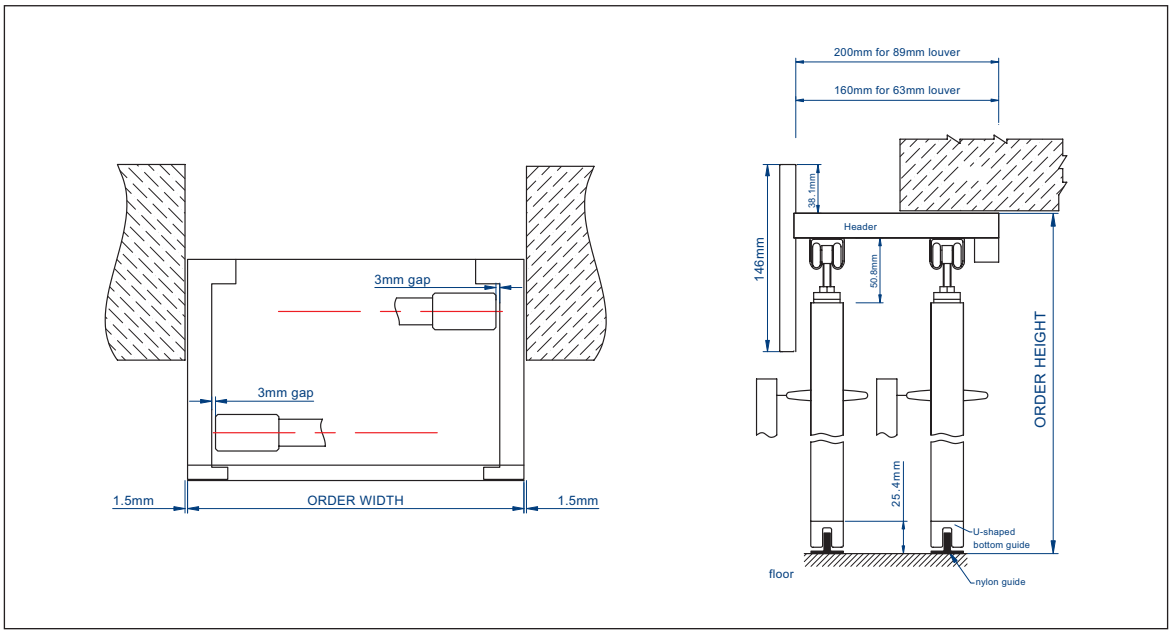
Important note if the panel width exceeds 450mm it is strongly advised to use the floor track system (see chapter bi-fold track system). Thus the panels are locked completely, which prevents the panels touching each other. Also the panels will be straight relative to each other (2 floor tracks will be installed over the entire width).

Mounting Type

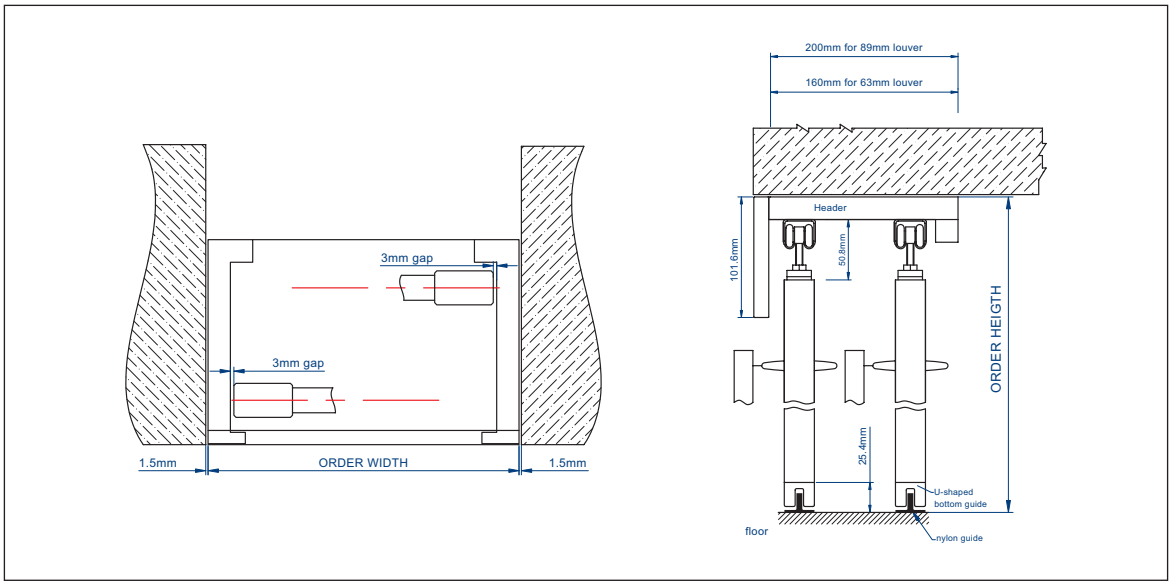
Bypass system with opened louvers, outside mount



Bypass system with opened louvers, semi-inside mount



Bypass system with opened louvers, inside mount

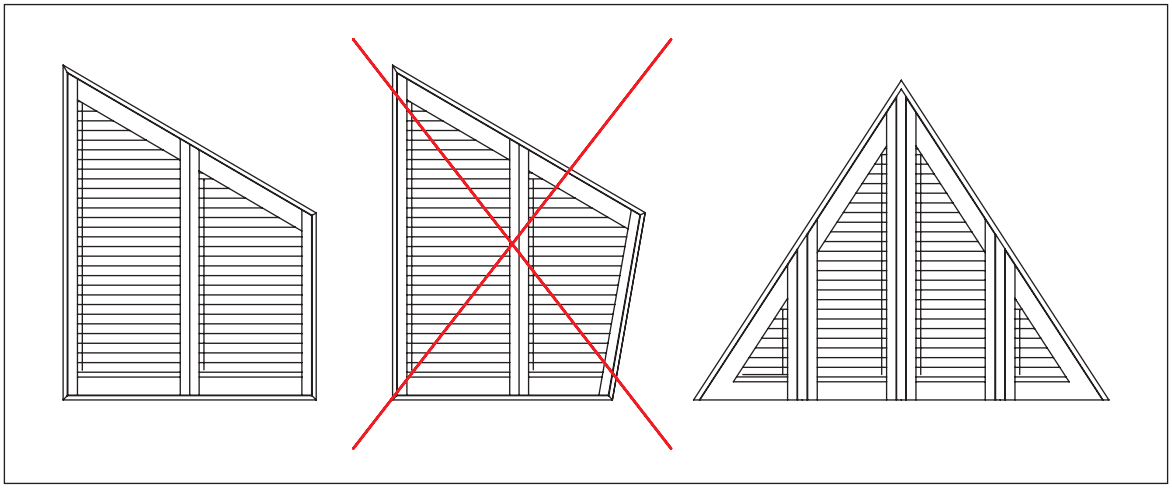


12. Special shapes (only for Ecowood)

SURCHARGE
SEE PRICELIST

Possible shapes

In Ecowood the raked forms can also be ordered from now on (so NO round or arch shapes). The order will still be limited to the standard available hang strips and T-posts so it more limited than the Primewood raked shapes!



The best way to order special shapes is to make a drawing with the dimensions.
If ordered a technical drawing will be provided to make an extra check.

Offset tiltrod

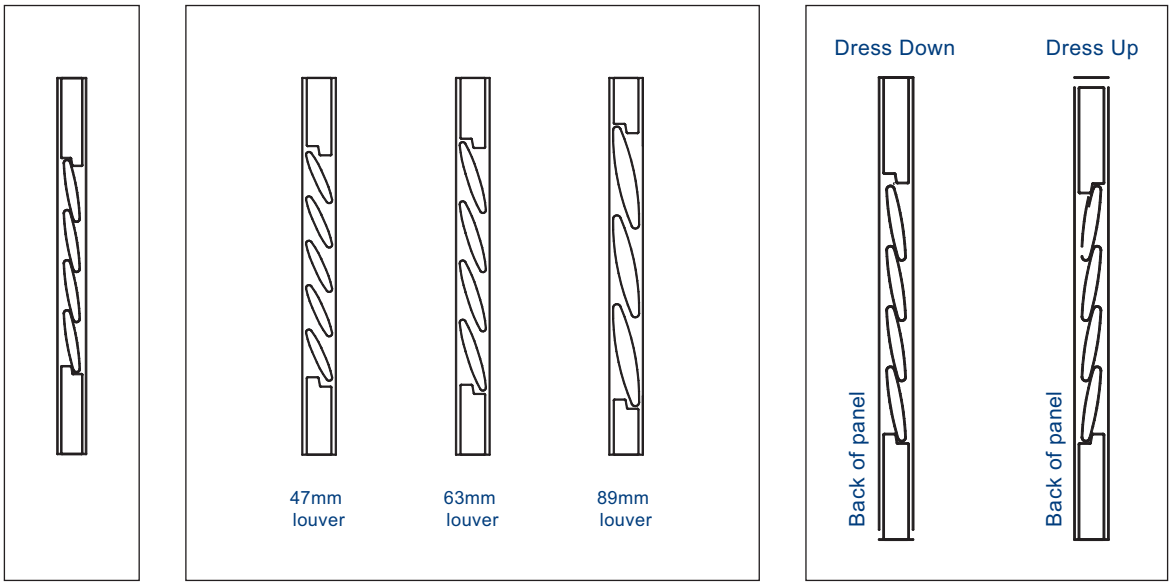
In most cases an offset tilt rod will be used for the raked shapes. The tilt rod will be installed 25mm from one of the ends of the louver.

13. Shutters with fixed louvers

SURCHARGE
SEE PRICELIST

Possible options

Closed **Open** **Direction**



The louvers will be fixed with an extra louver pin between the louver and stile. There will be no tilt rod (is technically not possible).

14. Remote control for Ecowood and Ecowood plus

SURCHARGE
SEE PRICELIST

Louver	Panel height in mm			
	Min. panel height due to motor	Distance between divider rail and top and/or bottom rail		
	Min.	Min.	Ecowood Max.	Ecowood Plus Max.
63mm	457mm	457mm	1879mm	1980mm
89mm	457mm	457mm	1879mm	1980mm

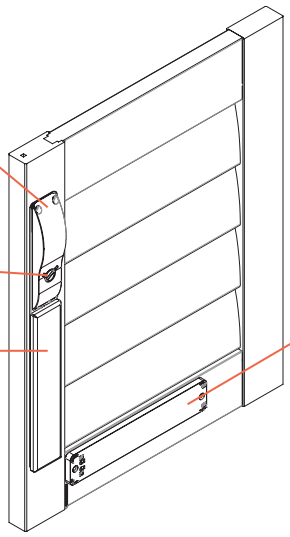
Attention Operating the louvers manualy is only possible if the switch of the driver has released the clutch (at the back of the panel).

Special shapes	Raked windows are available
Tilt rod	Only available in silent view, because the motor drives the gear system in the stile. Through this driving system one section can go up to 1879mm (Ecowood Plus 1980mm) without split up (split up of the silent view is not possible).
Stile	Only in 57mm, because of the dimensions of the motor.
Louver sizes	63 and 89mm
Guarantee	2 years
Motor	6 pcs. AA batteries (alkaline of lithium)
Solar Motor	6 pcs. AA batteries (Rechargeable). Please fully charge before installation!
Solar panel	Default installed on the battery box. With surcharge the solar panel can be installed on the bottom rail and also if 2 drivers are needed in 1 panel the 2 solar panels will be installed on the bottom rail. Installation on the divider rail is not possible due to the cables.
Remote unit	2 pcs. AAA batteries (alkaline of lithium)
Programming	For programming and installing look at the user manual at jasno.com

Receiver / driver
Attention: protrudes 20mm
Colors: white – coffee – caramel
Dimensions 330 x 37 x 40 mm

Manual switch
Operating the louvers by hand is only possible if the clutch has been released with this switch.

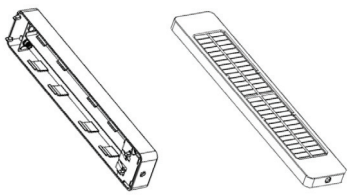
Battery box in driver
Is covered with wood in the same color as shutter, unless the solar panel is mounted on the battery box.



Mounting base (option)
If solar remote is ordered, a mounting base can be attached to the bottom rail for this solar panel (this can only be done in production due to the cabling).

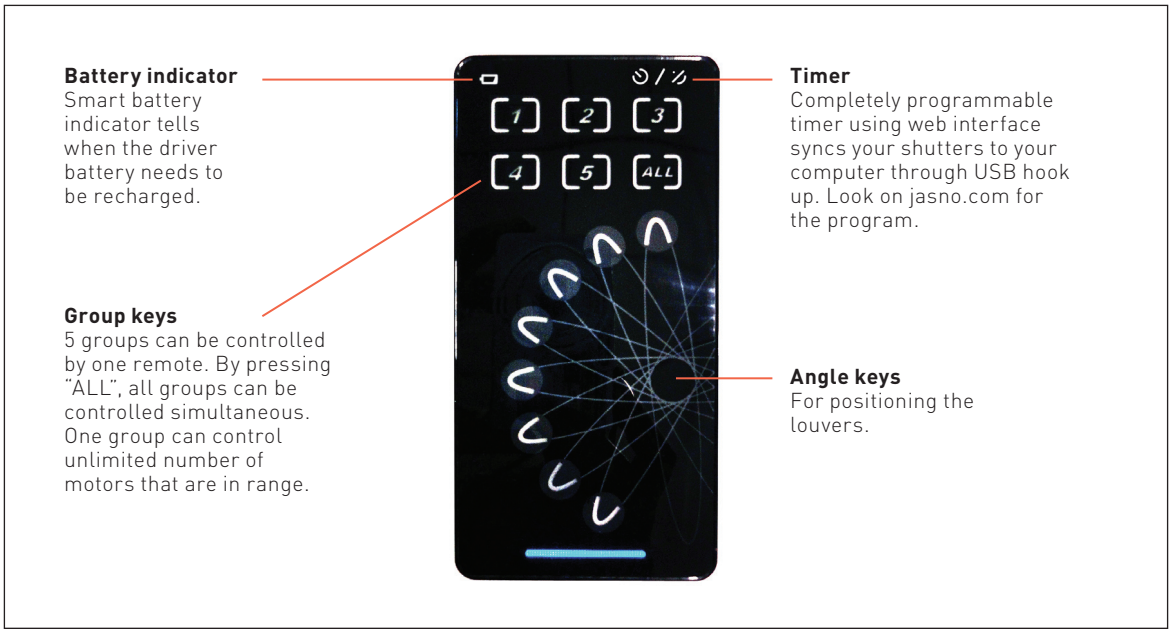
Default the solar panel is attached to the battery box.
Colors: white – coffee – caramel
Dimensions 195 x 37 x 9 mm

Extra battery box (option)
Can be placed on the existing battery box ór on the mounting base. The solar panel can charge both battery boxes.
Colors: white – coffee – caramel
Dimensions 195 x 37 x 22 mm



Solar panel (option)
See above for more info.
Colors: white – coffee – caramel
Dimensions 195 x 37 x 14 mm

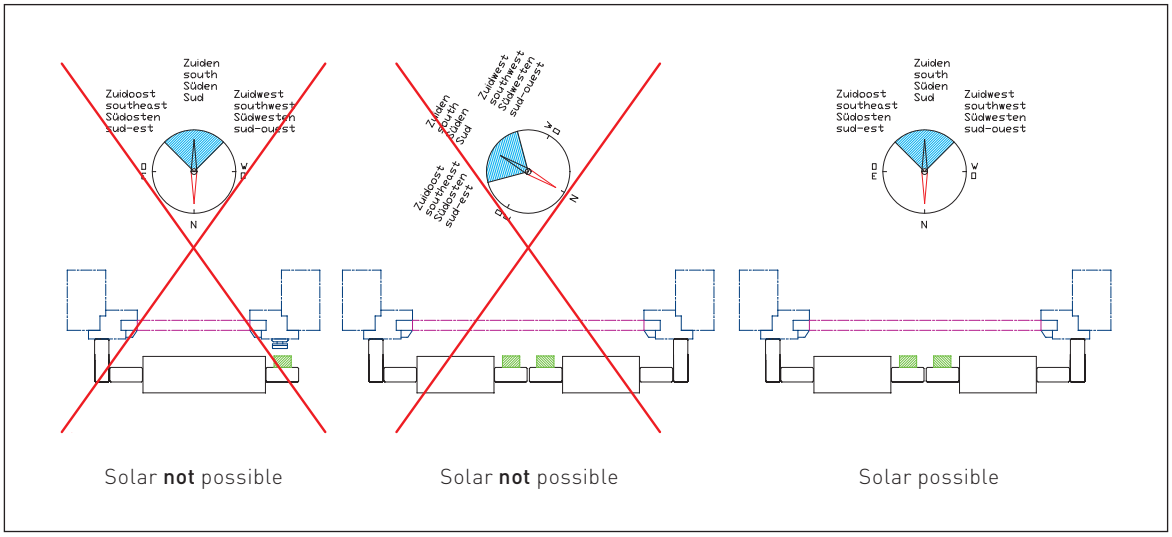
The remote includes **radio frequency**. Remote control powers on automatically with vibration sensing technology.


Battery indicator
Smart battery indicator tells when the driver battery needs to be recharged.
Group keys
5 groups can be controlled by one remote. By pressing "ALL", all groups can be controlled simultaneous. One group can control unlimited number of motors that are in range.
1
2
3
4
5
ALL
Timer
Completely programmable timer using web interface syncs your shutters to your computer through USB hook up. Look on jasno.com for the program.
Angle keys
For positioning the louvers.

Position solar panel

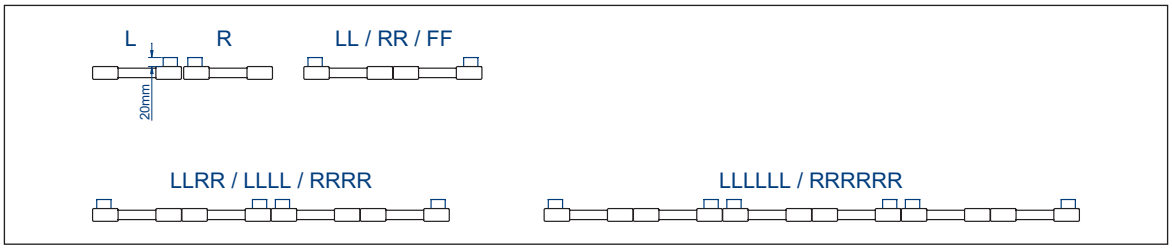
The solar panel needs of course sufficient **direct sunlight** during the day. For that reason it is of utmost importance to check the following, before advising the solar panel:

- The solar panel will be targeting at a position between southeast and southwest, after installation. Most smartphones have a compass function these days to determine the position.
- The window where the solar panels have to be installed will not have other window covering products at the inside or outside, like awnings, sunshade, screens, sun blinds etcetera, preventing the solar panel from being charged by the direct sunlight.
- The window glass has **no** special sun resisting coating or foil.
- The solar panel has a clear view to **the window glass**, within 15cm of the window glass. The solar panel can not be installed behind a frame style or door sill.

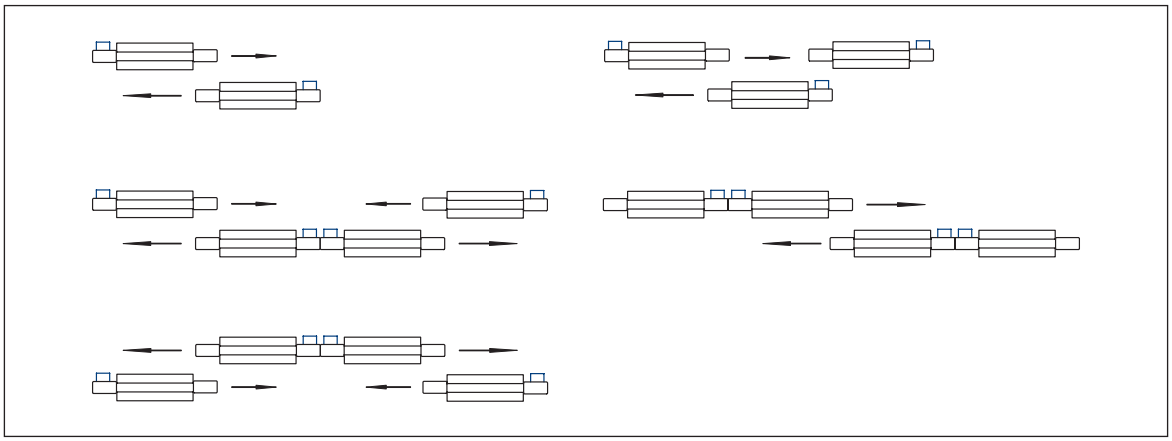


The solar panel charges the rechargeable batteries if direct sunlight can reach the solar panel. Rechargeable batteries also have a **limited life**, so they also need to be replaced from time to time. That depends on the quantity of direct sunlight and usage of the motor. If the use of solar panel is not possible, it is recommended to use the motor with normal batteries.

The driver(s) on hinged panels are positioned as in the following drawings. It is important to know that the panels can not fold together completely, while the driver protrudes 20mm.



In bypass track systems the driver will placed as follows:



Color coordination chart

Shutter	Driver, solar panel, mounting base, extra battery box
001 Pure White	White
002 Extra White	White
003 Silk White	White
004 Bright White	White
006 Pearl	White
008 Marshmallow	White
009 Creamy	White
011 Cameo	White
013 Bisque	White
019 String	White
023 White Dove	White
027 White Birch	White
037 Pointed White	White
048 Chai	Coffee
049 Stone Grey	Coffee
051 Brown Grey	Coffee
053 Clay	Coffee
836 Classic Black	Coffee

White

Coffee

15. Frame/Track splice

For frame, track (top/ Bottom) or plain fascia, if the length exceeds 3600mm, they will be split in two pieces.

16. Manufacture time

After confirmation of the order, the shutters will be **directly** put into manufacturing. Adjustments after confirmation cannot be made without extra costs. Delivery time will given after confirmation of the order.

17. Package

The Maximum weight per Box is 40kg.

18. Extra louvers

2 extra louvers will be supplied for each shutter. For the shutters with different panel width, will supply 2 extra louvers for each width.